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#### **FIELD MAINTENANCE PRINT SET**

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	K-PL-7018779-0-DBP	CPU CABLE RETRACTOR ASSY - PARTS LIST
	A-PA-3700662-0-0	PKG INSTR , CPU , 11730-Z
	1 > 1	

UNIT VARIATIONS COVERED BY THIS PRINT SET 11730-ZA	
	1

11730-Z

### Field Maintenance Print Set

# Digital Equipment Corporation

PRINT SET ORDER NO. MP01270

	PEV		USED ON OP	TION/MODEL,		DATE 22mar82				digital
		•					TITLE:			
2	o			-	CHK'D GOM	( I		FIELD M	AINT. PRINT SET 730-Z	
S S	Z			<del> </del>	R.MORIN	13APR82		11	/30-2	
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	삗				FIELD SERV.	DATE	В	TC	11730-Z-1	Α
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#### FIELD MAINTENANCE PRINT SET

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B-DD-KA730-A K-PL-KA730-A-DBP B-DD-M8390-0 D-UA-M8390-0-0 K-PL-M8390-0-DBP D-BD-M8390-0-0 D-BD-M8390-0-1 D-CS-M8390-0-DAPX(COMPLETE) D-GL-M8390-0-0 D-TD-M8390-0-0 D-EC-5013860-0-0 B-DD-M8391-0 D-UA-M8391-0-0 K-PL-M8391-0-DBP D-BD-M8391-0-1 D-CS-M8391-0-MCTX(COMPLETE) D-FC-M8391-0-XX(COMPLETE) D-GL-M8391-0-0 D-TD-M8391-0-0 D-EC-5013893-0-0 B-DD-M8394-0 D-UA-M8394-0-0 K-PL-M8394-0-DBP D-BD-M8394-0-0 D-CS-M8394-0-WCSX(COMPLETE) D-GL-M8394-0-0 D-TD-M8394-0-0 D-EC-5014439-0-0 B-DD-G7273-0 D-UA-G7273-0-0 K-PL-G7273-0-DBP D-CS-M9302-YA-1

11730 MODULE SET - DWG. DIRECTORY 11730 MODULE SET - PARTS LIST M8390 DATA PATH MODULE - DWG DIRECTORY M8390 DATA PATH MODULE ASSY M8390 DATA PATH MODULE ASSY - PARTS LIST DATA PATH BLOCK DIAGRAM CONTROL STORE FORMATS DATA PATH - CIRCUIT SCHEM. DATA PATH - ROM AND PALS LISTING 11730 CPU MICROCYCLE TIMING M8390 DATA PATH MODULE - ETCH CUT DWG M8391 MEMORY CONTR. MODULE - DRAWING DIRECTORY M8391 MEMORY CONTR. MODULE ASSY M8391 MEMORY CONTR. MCDULE ASSY - PARTS LIST MEMORY CONTROLLER BLOCK DIAGRAM MEMORY CONTROLLER - CIRCUIT SCHEMATIC MEMORY CONTROLLER MICROCODE FLOWS MEMORY CONTROLLER - ROM AND PALS LISTING MEMORY CONTROLLER - TIMING DIAGRAM M8391 MEMORY CONTR. MODULE - ETCH CUT DWG M8394 WRITEABLE CONTROL STORE MOD. - DRAWING DIRECTORY M8394 WRITEABLE CONTROL STORE MOD. ASSY M8394 WRITEABLE CONTROL STORE MOD. ASSY - PARTS LIST WRITEABLE CONTROL STORE - BLOCK DIAGRAM WRITEABLE CONTROL STORE - CIRCUIT SCHEMATIC WRITEABLE CONTROL STORE - ROM AND PALS LISTING W.C.S. DYNAMIC RAM TIMING DIAGNOSTICS W.C.S. ETCH CUT DRAWING BUS GRANT & NON-PROC GRANT CARD - DRAWING DIRECTORY BUS GRANT & NON-PROC GRANT CARD ASSY BUS GRANT & NON-PROC GRANT CARD - PARTS LIST M9302 UNIBUS TERMINATOR - CIRCUIT SCHEM. 1 MB MEMORY ARRAY FIELD MAINT PRINT SET (COMPLETE)

**UNIT VARIATIONS COVERED BY THIS PRINT SET** 11730-ZA

11730-Z

#### Field Maintenance Print Set

## Digital Equipment Corporation

PRINT SET ORDER NO. MP01270

DATE REV DRN. USED ON OPTION/MODEL 22MAR82 A. ROCHA TITLE: DATE CHK'D Š REVISIONS FIELD MAINT. PRINT SET R. MORIN 13APR82 CHG. 11730-Z PROJ. ENG. DATE R. MORIN 13APR82 NUMBER SIZE TC REV. B DATE 11730-Z-1 Α FIELD SERV. DATE DIST. SHEET OF 2 21 APK 82

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MP01366

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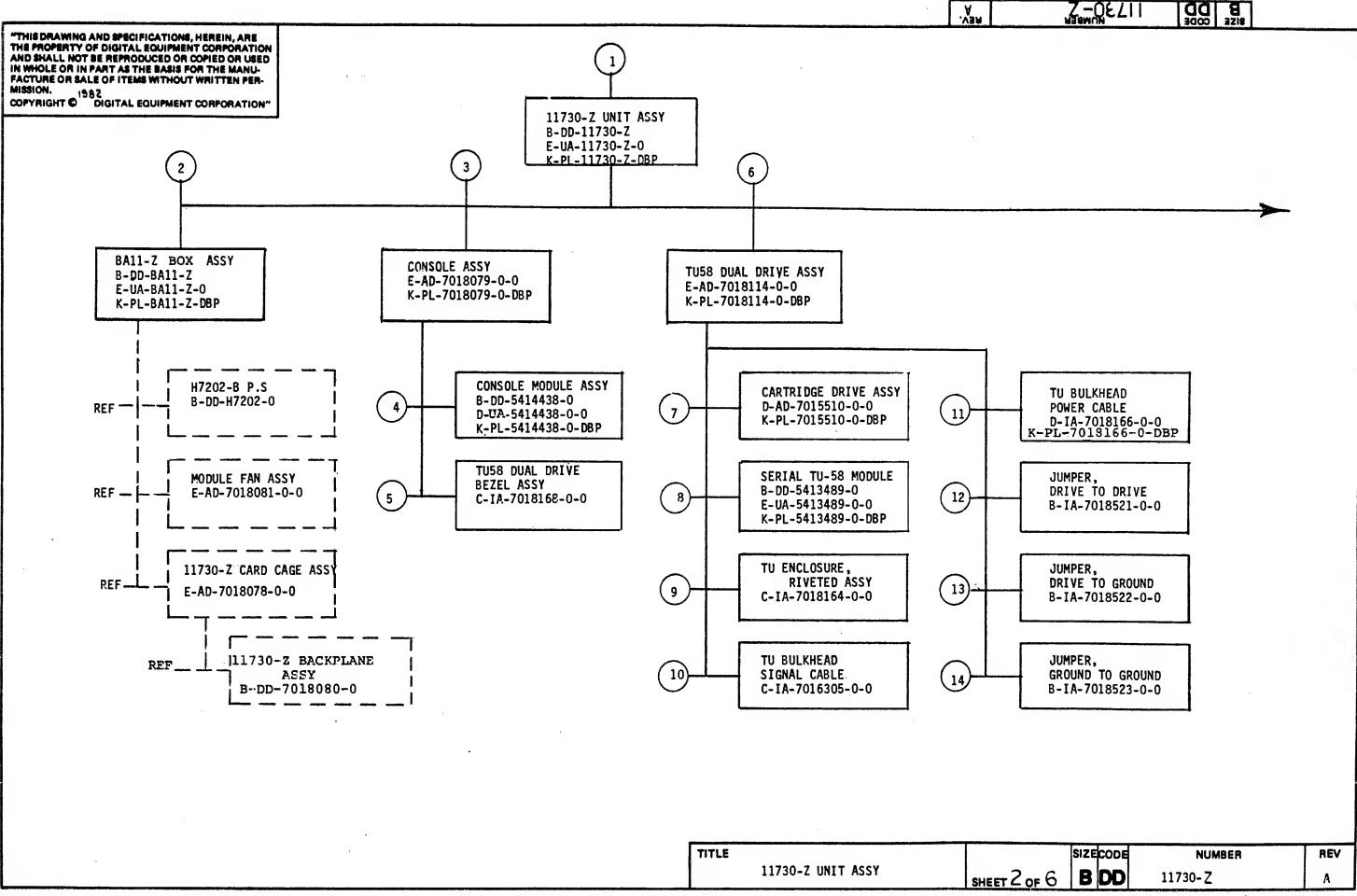
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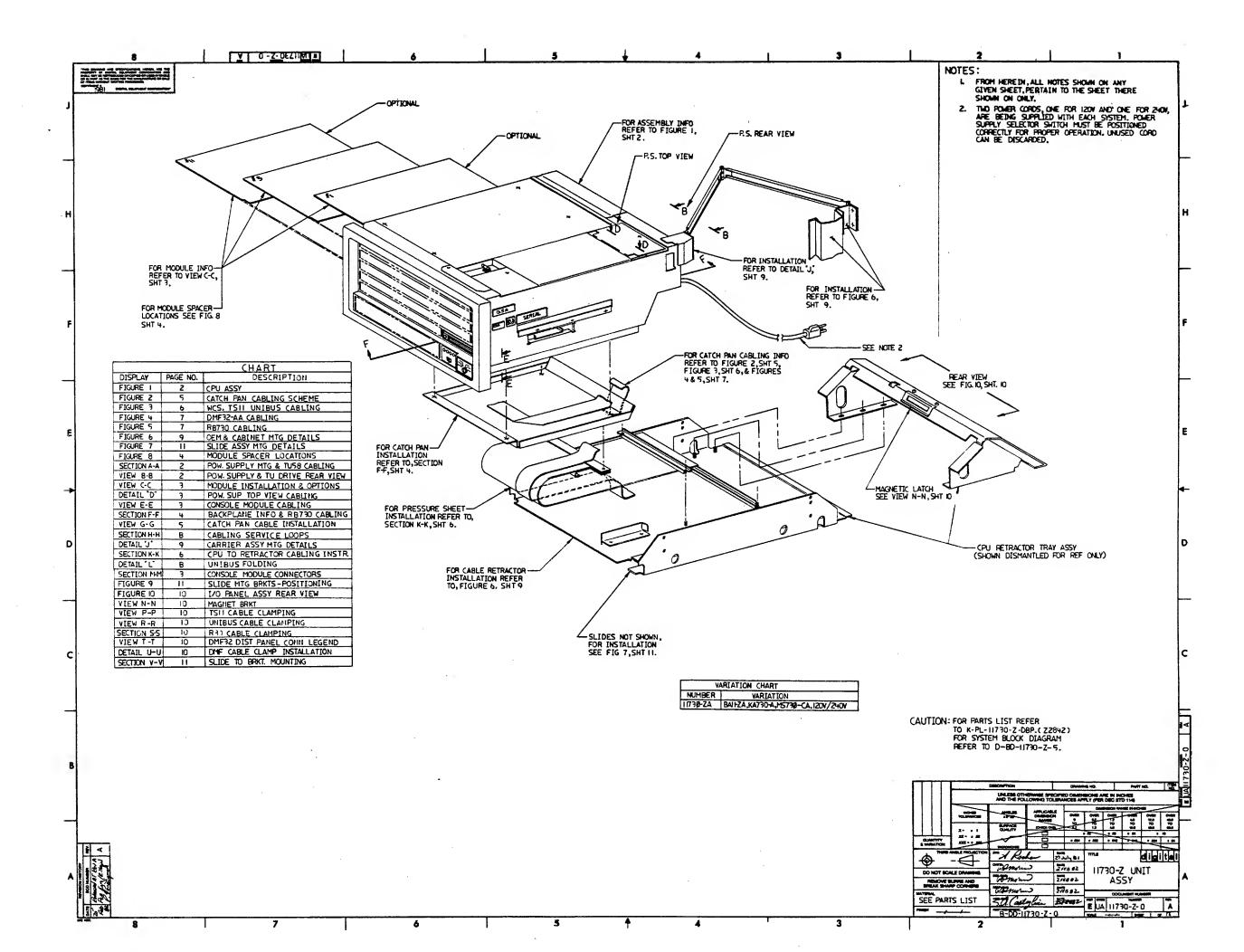


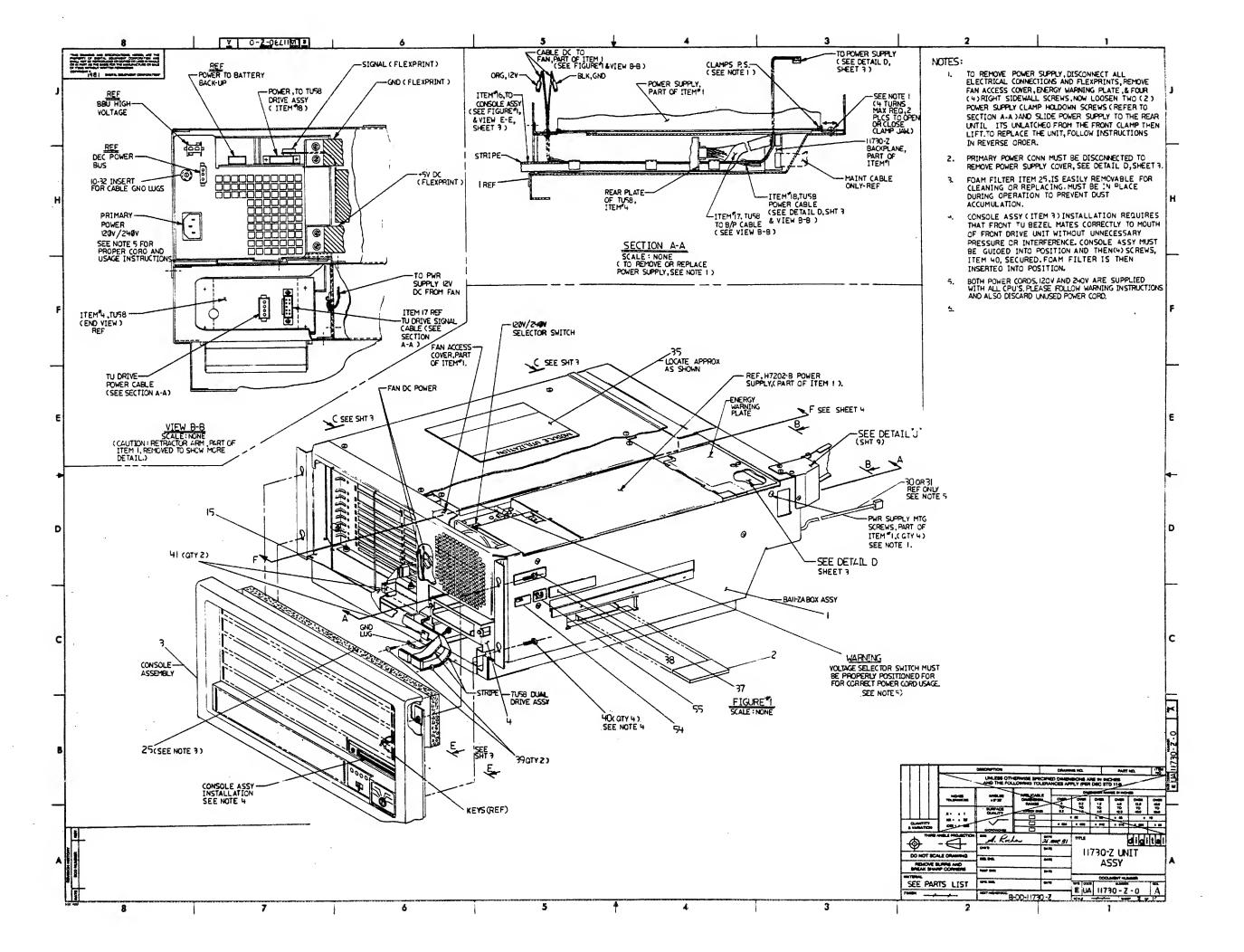
11730-Z B DD size REV. "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANU-FACTURE OR SALE OF ITEMS WITHOUT WRITTEN PER-MISSION. 1982 COPYRIGHT O DIGITAL EQUIPMENT CORPORATION" 25 15 11730 MODULE SET CPU CABLE RETRACTOR ASSY B-DD-KA730-0 E-AD-7018779-0-0 BUS GRANT & NON-PROC K-PL-KA730-A -DBP K-PL-7018779-0-DBP CABLE ASSY GRANT CARD CATCH PAN ASSY (22) [19] (10 COND. RIBBON) B-DD-G7273-0 C-IA-7018720-0-0 (30 D-UA-G7273-0-0 D-IA-7011411-0-0 K-PL-7018720-0-DBP K\_DI\_C7273\_0\_DBD RETRACTOR TRAY. PRESSURE SHEET ASSY DATA PATH MODULE UNIBUS TERMINATOR TU58 POWER CABLE RIVETED ASSY C-IA-7018718-0-0 B-DD-M8390-0 (16) 20) (26) B-DD-M9302-0 D-IA-7018109-0-0 (23)31 D-IA-7018549-0-0 K-PL-7018718-0-DBP D-UA-M8390-0-0 D-UA-M9302-0-0 K-PL-7018109-0-DBP K-PL-7018549-0-DBP K-PL-M8390-0-DBP K\_PI\_M9302\_0\_DRP MEMORY CONT. MODULE IMB MEMORY ARRAY MODULE CABLE ASSY CLAMP ASSY B-DD-M8391-0 B-DD-MS730-C CLAMP ASSY (25/26 COND. RIBBON) (17) (21) ( 24 ) 27 C-IA-7018772-0-0 D-UA-M8391-0-0 B-PL-MS730-C-0 32 C-IA-7018074-0-0 C-IA-7018772-0-0 K-PL-7018772-0-DBP K-PL-M8391-0-DBP K-PL-7018772-0-DBP WRITABLE CONTROL PKG, CPU, 11730-ZA MOS MEMORY ARRAY CPU-I/O PANEL ASSY STORE MODULE (28) B-DD-M8750-0 (33) A-PS-3700662-0-0 D-AD-7018778-0-0 (18) B-DD-M8394-0 (34 D-UA-M8750-0-0 K-PL-7018778-0-DBP D-UA-M8394-0-0 K-PL-M8750-CA-DBP K-PL-M8394-0-DBP UNIBUS FILLER BRKT ASSY (29) B-IA-7018781-0-0 K-PL-7018781-0-DBP SIZECODE REV NUMBER 11730-Z UNIT ASSY 11730-Z B DD SHEET 3 OF 6 Α

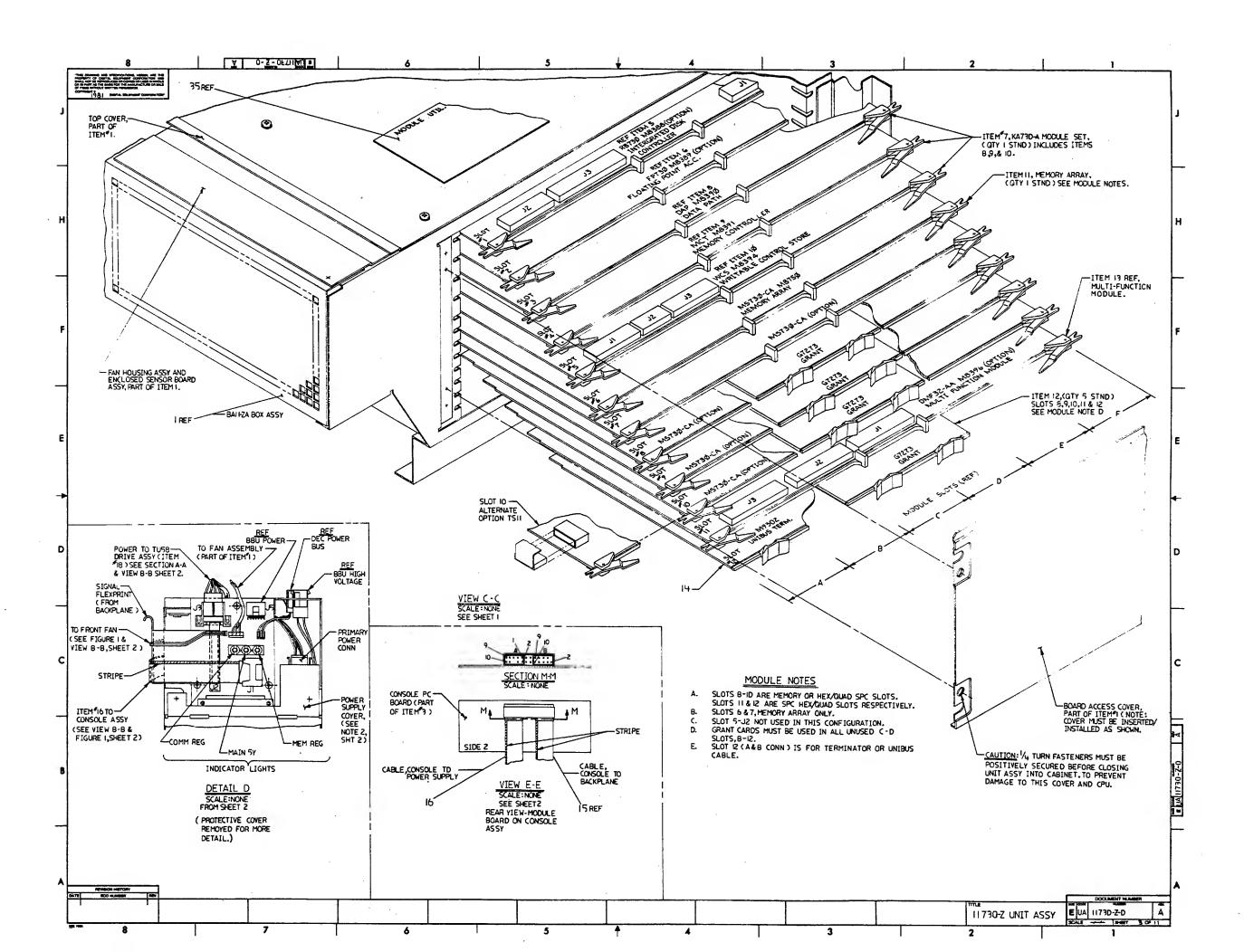
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	MP01270	FIELD MAINTENANCE PRINT SET (MP)	_		5. C-IA-7018168-0-0	TU58 DUAL DRIVE BEZEL ASSY	_
	B-TC-11730-Z-1	FIELD MAINTENANCE PRINT SET (TC)	-	11	D-MD-7425270-0-0	BEZEL, FRONT, TU	
	B-DD-11730-Z	11730-Z UNIT ASSY - DRAWING DIRECTORY	-	↓∟	B-MD-7425341-0-0	TU, LED BUTTON	
	E-UA-11730-Z-0	11730-Z UNIT ASSY	E/N	1			
	K-PL-11730-Z-DBP	11730-Z UNIT ASSY - PARTS LIST -Z28	-	⇃┖			
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	€-PS-1209856-0-0	MODULE HOLDER	. М		B-MD-7424846-0-0	TU CENTER BRACE	
	A-PS-1217665-0-0	FILTER FOAM	M		D-MD-7424848-0-0	TU_BOTTOM PLATE	
	A-PS-1218166-0-0	SLIDE (PAIR) W/HDW	М	JL	A-PS-1118799-0-0	LED CABLE ASSY	7
	A-PS-1219020-0-0	CARRIER, CABLE	M				
	A-PS-1215700-0-0	CABLE, FERRULED	М				_
	A-PS-3615809-0-0	MEDIA CARTRIDGE, TU58-K	М	Ŀ	D-AD-7015510-0-0	CARTRIDGE DRIVE ASSY	
	D-MD-7425374-0-0	BRACKET, SLIDE MOUNTING	M		K-PL-7015510-0-DBp	CARTRIDGE DRIVE ASSY - PARTS LIST - Z1620	_
	B-IA-7426335-0-0	PLATE, STUD	M	$\mathbb{I}$			_
	C-MD-7413659-0-0	BRACKET, SHIPPING	M	ΙГ			-
	C-MD-7425927-0-0	GUIDE AND CLAMP	M	[ [	B-DD-5413489-0	SERIAL TUSS MODULE ASSY - DRAWING DIRECTORY	
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	C-MD-7425929-0-0	BRACKET, CAB/CARRIER	M		K-PL-5413489-0-DBP	SERIAL TUSS MODULE ASSY - PARTS LIST - 20582	
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	D-IA-7426625-0-0	CLAMP, DMF CABLE	М	╙			
	B-IA-7426723-0-0	BAR CLAMP ASSY	М	l L			
			-	وال	C-IA-7018164-0-0	TU ENCLOSURE RIVETED ASSY	
				<u>l</u> L	E-IA-7424845-0-0	TU ENCLOSURE	
-			To a second	$\ \cdot\ $	C-MD-7424847-0-0	TU BACKPLATE	
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	E-UA-BAll-Z-O	BA11-Z BOX ASSY - PARTS LIST - Z1862		╢			
	K-PL-BAll-Z-DBP	BRII-Z BOX ASSI - FARIS DISI - 22002		<del>∐</del>	D 72 701014		
				<b>∤</b> ∤₊	1. D-IA-7018166-0-0	TU BULKHEAD POWER CABLE	
		CONCOLE FORK		╢	K-PL-7018166-0-DBP	TU BULKHEAD POWER CARLE - PARTS LIST - 21854	
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	K-PL-7018079-0-DBP	LOCK, ASSY PLASTIC (6 POS)		1			
	A-PS-1216178-0-0		M	-	2. B-IA-7018521-0-0	JIMPER, DRIVE TO DRIVE	
= 17	A-PS-1217094-0-0	BEZEL, 10.5 IN.	M	-			
	A-PS-1217665-0-0	FILTER, FOAM INSERT	M	-			
	E-IA-7424269-0-0	CONSOLE, INSERT	M	1	3. B-IA-7018522-0-0	JUMPER, DRIVE TO CROUND	
	E-IA-7424832-0-0	MOUNTING PLATE, 10.5 IN.	M	_			
	D-MD-7426334-0-0	SHIELD	М	$\ \cdot\ _{\mathbf{i}}$	4. B-IA-7018523-0-0	THATE COVIND TO COVIND	$\dashv$
						JUMPER GROUND TO GROUND	
4.	B-DD-5414438-0	CONSOLE MODULE ASSY - DRAWING DIRECTORY		1			
	D-UA-5414438-0-0	CONSOLE MODULE ASSY	E/M	11	5. B-DD-KA730-A	11730 MODULE SET - DRAWING DIRECTORY	
	K-PL-5414438-0-DBP	CONSOLE MODULE ASSY - PARTS LIST			K-PL-KA730-A-DBP	11730 MODULE SET - PARTS LIST	
	D-CS-5414438-0-1	CONSOLE MODULE ASSY - CIRCUIT SCHEMATIC	Е	Щ			T
YP!	E: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL		digital	TI	TLE 11730-Z UNI	T ASSY SHEET 4 OF 6 B DD 11730-Z	R

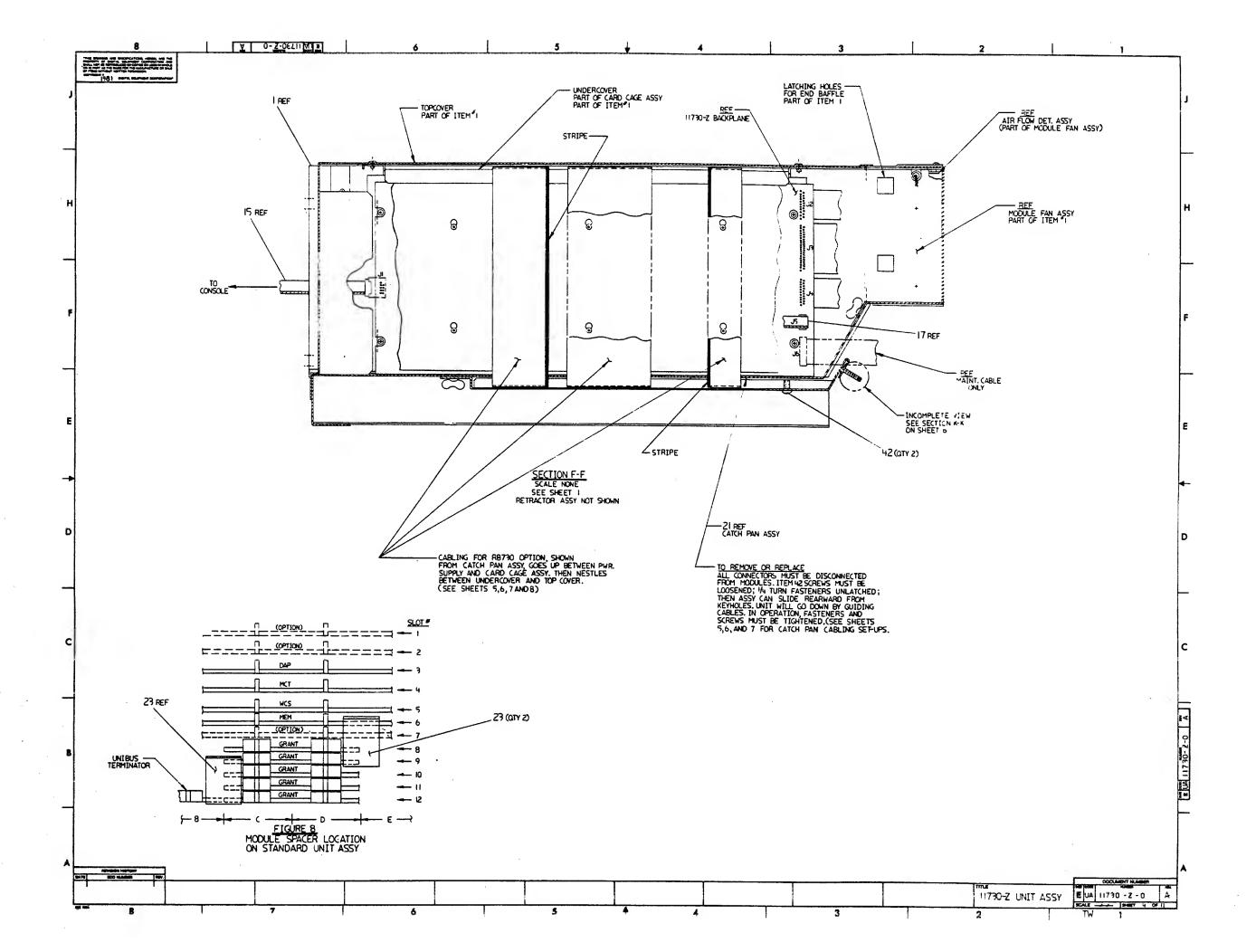
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16	B-DD-M8390-0	M8390 DATA PATH MODULE - DRAWING DIRECTORY		25	E-AD-7018779-0-0	CPU CABLE RETRACTOR ASSY	N
	D-UA-M8390-0-0	M8390 DAP MODULE ASSY	E/M		K-PL-7018779-0-DBP	CPU CABLE RETRACTOR ASSY (PARTS LIST) -Z3612	<del>-  -</del>
	K-PL-M8390-0-DBP	M8390 DAP MODULE ASSY (PARTS LIST)	·-		E-IA-7425733-0-0	TRAY, R.H. HALF	
	D-CS-M8390-0-1	M8390 DAF MODULE - CIRCUIT SCHEMATIC	E		E-IA-7426619-0-0	BRACKET, I/O PANEL (RT AND LT)	N
					E-IA-7426618-0-0	PANEL, I/O PORT	<u> </u>
					C-IA-7426620-0-0	BRACKET, MAGNET	M
	B-DD-M8391-0	M8391 MEMORY CONTROLLER MODULE- DWG DIRECTORY	-		C-MD-7426621-0-0	COVER PLATE, R80 HOLE	M
	D-UA-M8391-0-0	M8391 MCT MODULE ASSY	E/M		B-IA-7426652-0-0	PLATE, NUT	M
	K-PL-M8391-0-DBP	M8391 MCT MODULE ASSY (PARTS LIST)	-		D-MD-7426407-01-DBU	PANEL, DOUBLE BLANK	M
	D-CS-M8391-0-1	M8391 MCT MODULE- CIRCUIT SCHEMATIC	E		A-PS-1212908-0-0	DOOR CATCH, MAGNETIC	į.
18	B-DD-M8394-0	M8394 WRITABLE CONTROL STORE MODULE - DWG DIR.			D 14 7010540 0 0	DETENDED TO THE STATE OF THE ST	
-10	D-UA-M8394-0-0	M8394 WCS MODULE ASSY	E/M	150	D-IA-7018549-0-0 K-PL-7018549-0-DBP	RETRACTOR TRAY - RIVETED ASSY	M
	K-PL-M8394-0-DBP	M8394 WCS MODULE ASSY (PARTS LIST)		-	D-MD-7425729-0-0	RETRACTOR TRAY - RIVETED ASSY (PARTS LIST) - 22446 GUIDE, CABLE	-
	D-CS-M8394-0-1	M8394 WCS MODULE - CIRCUIT SCHEMATIC	E	$\vdash$	E-IA-7425732-0-0		17
	D-C3-1/05374-0-1	PIOSOF NES PRODUCE - CINCOTT SCHEINTIC			E-1K-7425732-0-0	TRAY, L.H. HALF	<u> </u>
				27	C-IA-7018772-0-0	CLAMP ASSY	
19	B-DD-G7273-0	BUS GRANT AND NON-PROCESSOR GRANT CARD - DWG DIR.			K-PL-7018772-0-DBP	CLAMP ASSY (PARTS LIST) -Z3325	
	D-UA-G7273-0-0	GRANT CARD ASSY	E/M		C-MD-7425711-0-0	CLAMP, CABLE	M
7,7	K-PL-G7273-0-DBP	GRANT CARD ASSY (PARTS LIST)			B-MD-7426358-0-0	FOAM, ADH-BACKED	M
				28	B D-AD-7018778-0-0	CPU - I/O PANEL ASSY	М
	B-DD-M9302-0	UNIBUS TERMINATOR - DRAWING DIRECTORY	-		K-PL-7018778-0-DBP	CPU - I/O PANEL ASSY (PARTS LIST) -Z3616	<del></del>
	D-UA-M9302-0-0	UNIBUS TERMINATOR ASSY	E/II		D-IA-7426405-04-DBU	PLATE, SEXTAL, CPU - I/O	М
	K-PL-M9302-0-DBP	UNIBUS TERMINATOR ASSY (PARTS LIST)	-		C-IA-7426654-0-0	BRACKET, CABLE GRD	M
	D-CS-M9302-0-1	UNIBUS TERMINATOR ASSY - CIRCUIT SCHEMATIC	Ė		A-PS- 1219534-0-0	SCREW, CAPTIVE	М
					A-PS-1217431-0-0	CONN, D SUB, 25 PIN FILTERED	E/
					A-PS-1211591-0-0	CONN, ZIF, 40 CONDUCTOR	E/
	B-DD-MS730-C K-PL-MS730-C-DBP	MS730 MEMORY ARRAY MODULE - DRAWING DIRECTORY MS730 MEMORY ARRAY MODULE ASSY - PARTS LIST	- 11 P 1				
	K-PL-M373U-C-DBP	M3/30 MEMINI ANNAT MUDULE. A331 - FANTS E131		29	B-IA-7018781-0-0 K-PL-7018781-0-DBP	BRACKET ASSY, UNIBUS FILLER	M
				-	D-MD-7426624-0-0	BRACKET ASSY, UNIBUS FILLER (PARTS LIST) Z3618	
					B-MD-7426653-0-0	FOAM PAD, CABLE CLAMP	М
22	D-IA-7011411-0-0	CABLE ASSY - 10 COND. RIBBON	E/M				
				30	C-IA-7018720-0-0	CATCH PAN ASSY	+
					K-PL-7018720-0-DBP	CATCH PAN ASSY (PARTS LIST) -Z2835	M
23	D-IA-7018109-0-0	CABLE TU58 POWER	E/!1		E-IA-7425728-0-0	CATCH PAN	
	K-PL-7018109-0-DBP	CABLE, TUS8 POWER (PARTS LIST) - Z1853	-				
24	C-IA-7018074-0-0	CABLE ASSY - 25/26 COND RIBBON	E/M				
	F. F. COTO.						
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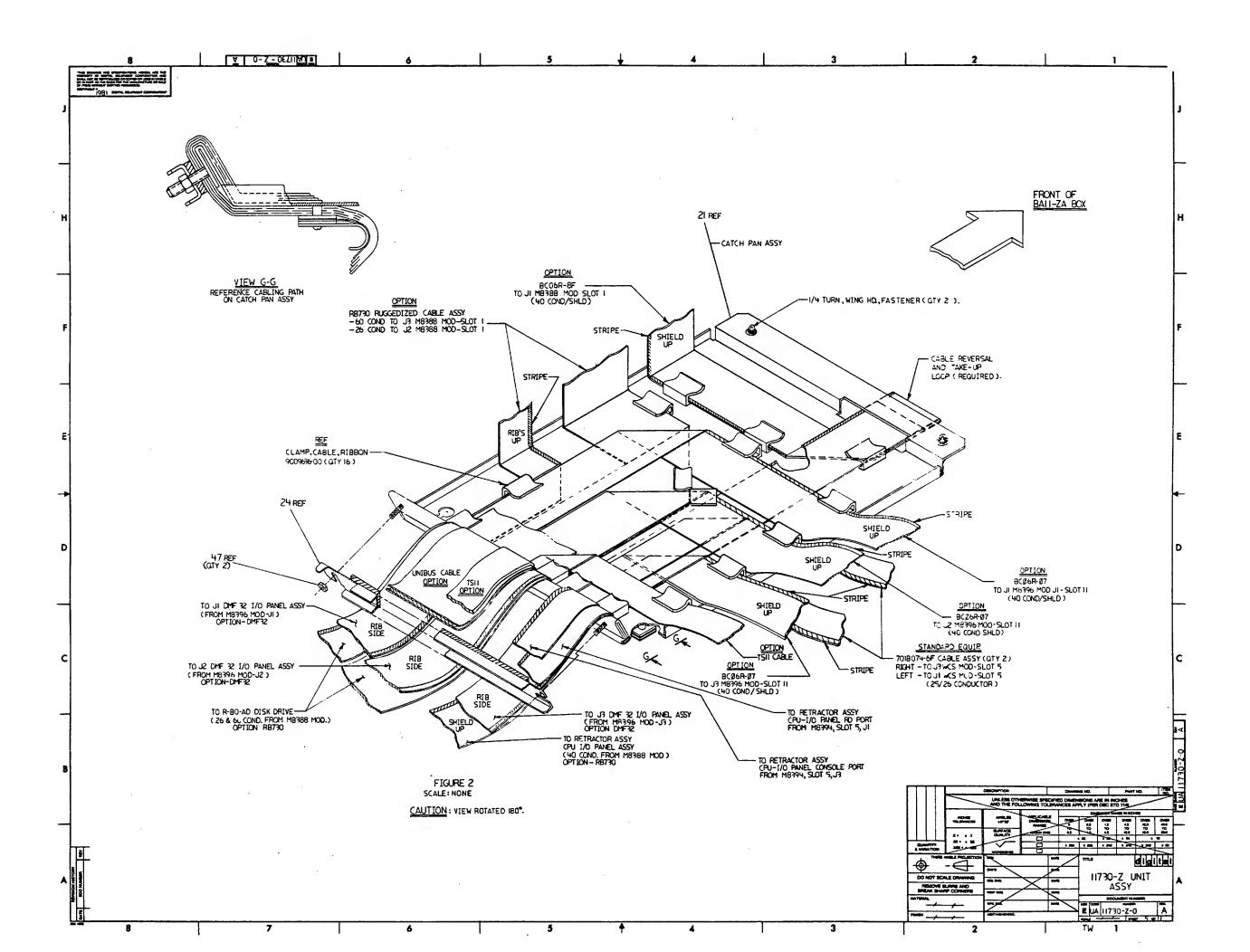
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FIND NO.	DRAWING NO.	DESCRIPTION	YPE	FIND NO.	DRAWING NO.	DESCRIPTION
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31	C-IA-7018718-0-0	PRESSURE SHEET ASSY	M.			
	K-PL-7018718-0-DBP	PRESSURE SHEET ASSY (PARTS LIST) - Z2618 SHEET, PRESSURE	-			
1	C-MD-7425726-0-0		M			
	C-MD-7425730-0-0	CLAMP, SHEET	M			
			_			
2	C-IA-7018772-0-0	CLAND ACCV	М	-		·
2	C-PL-7018772-0-DBP	CLAMP ASSY CLAMP ASSY (PARTS LIST) -23325	1-			
	C-MD-7425711-0-0	CLAMP, CABLE	М			
	3-MD-7426358-0-0	FOAM, ADH-BACKED	М			
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33	A-PS-3700662-0-0	PKG, CPU, 11730-ZA	M	-		
+			+	-		
34	B-DD-M8750-0	1 MB MOS MEMORY ARRAY - DRAWING DIRECTORY	1_			
	B-DD-M8750-0 D-UA-M8750-0-0	1 MB MOS MEMORY ARRAY	E/M			
	K-PL-M8750-CA-DBP	1 MB MOS MEMORY ARRAY - PARTS LIST				
	D-CS-M8750-0-1	1 MB MOS MEMORY ARRAY - CIRCUIT SCHEM.	Ε	<b> </b>		
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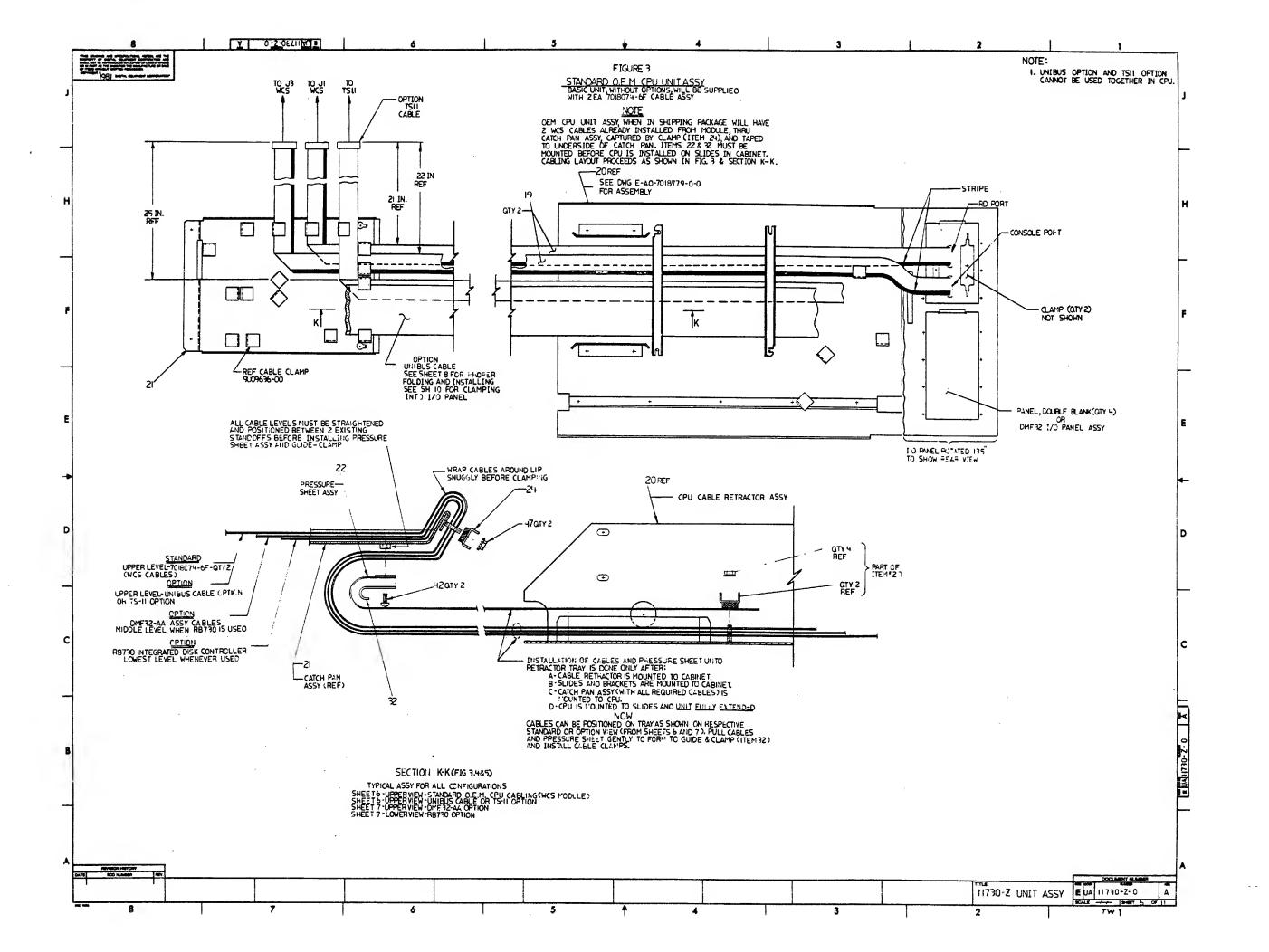


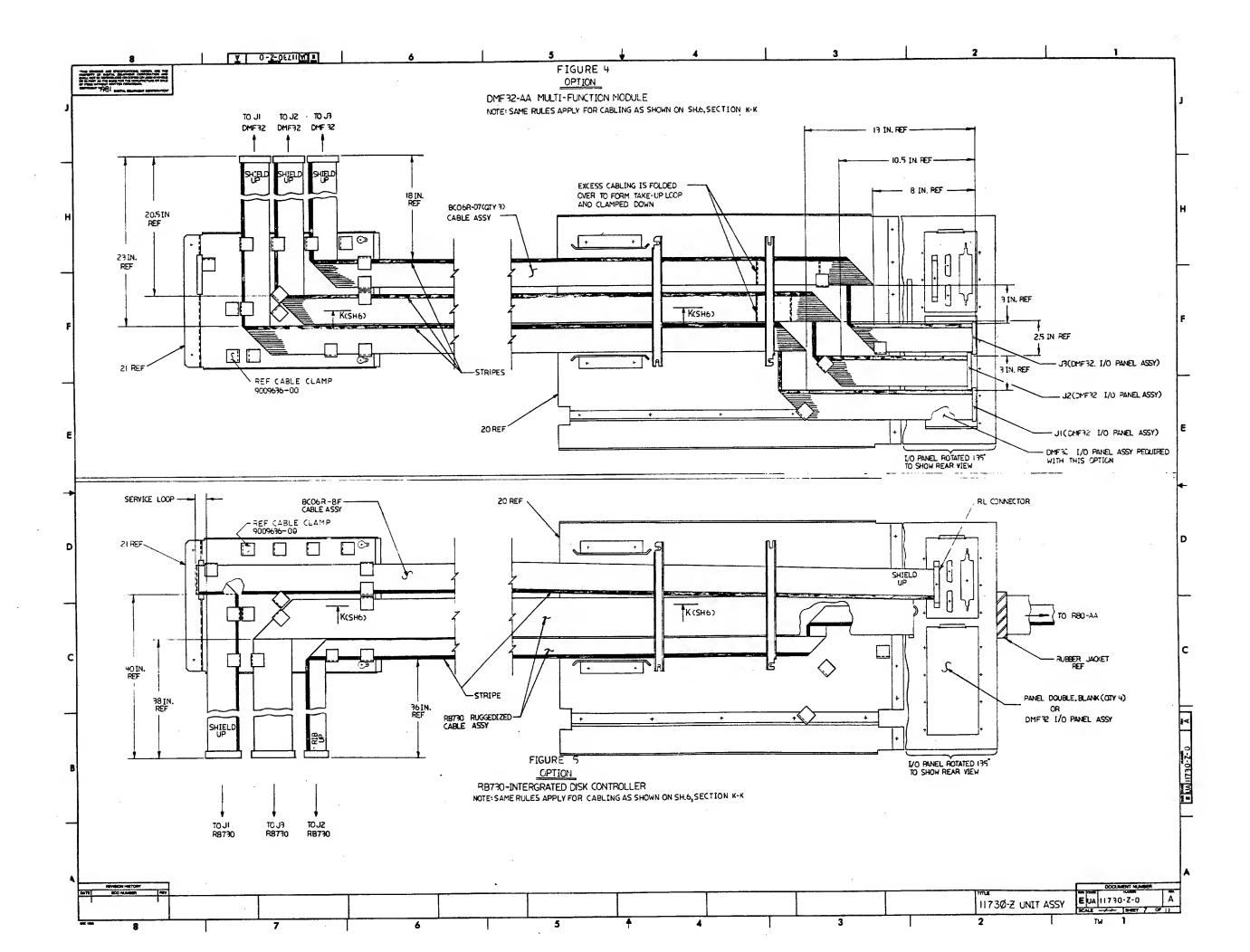


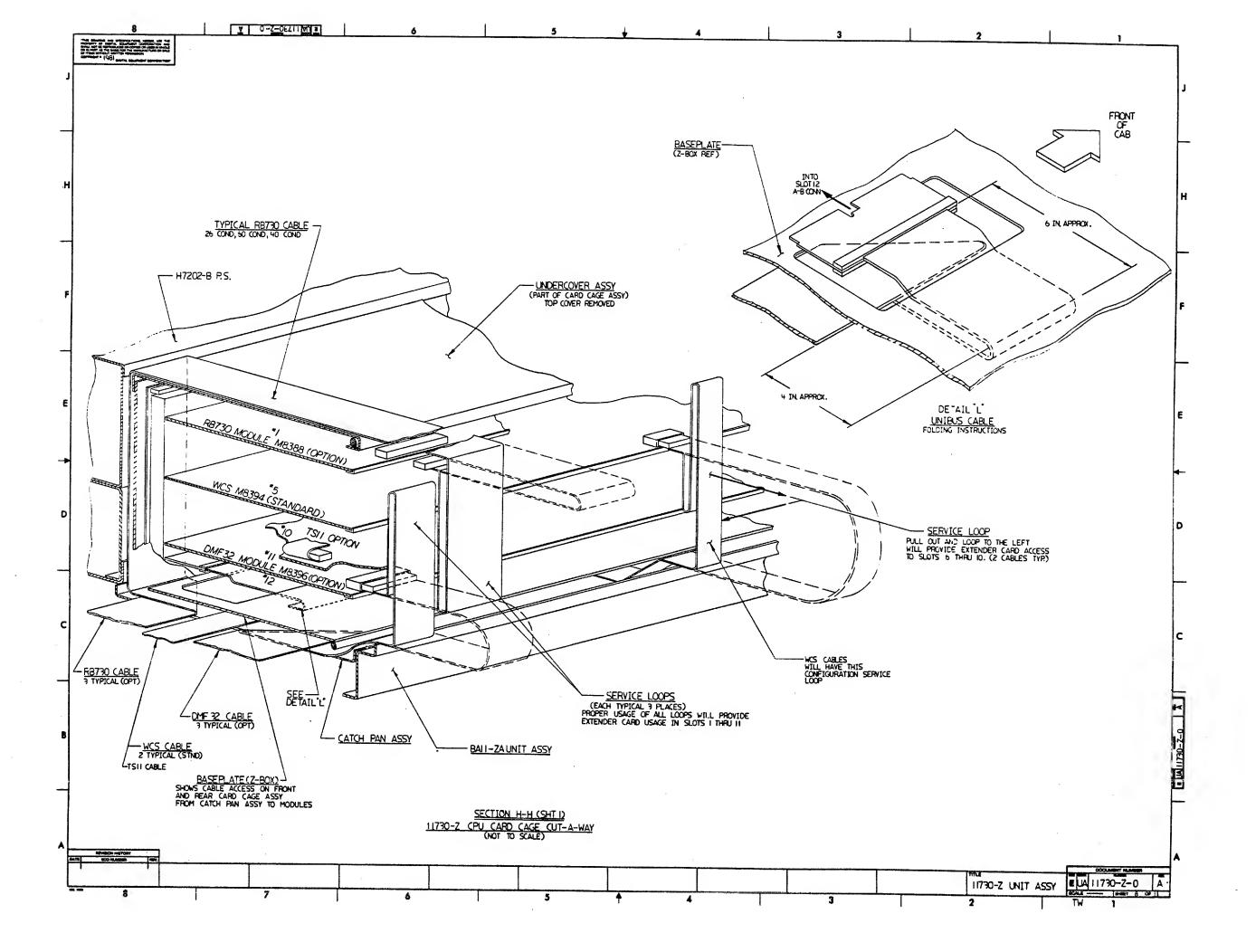


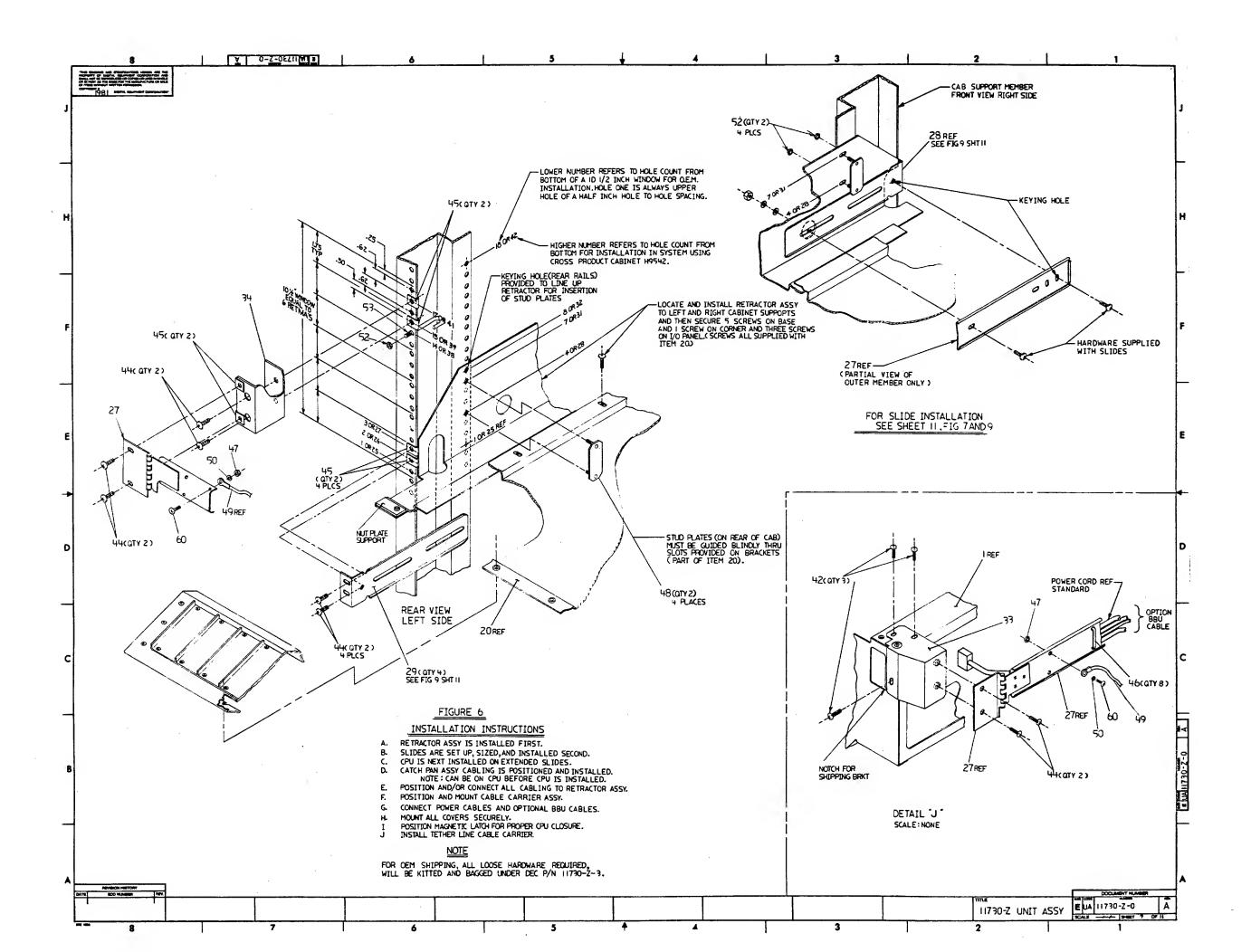


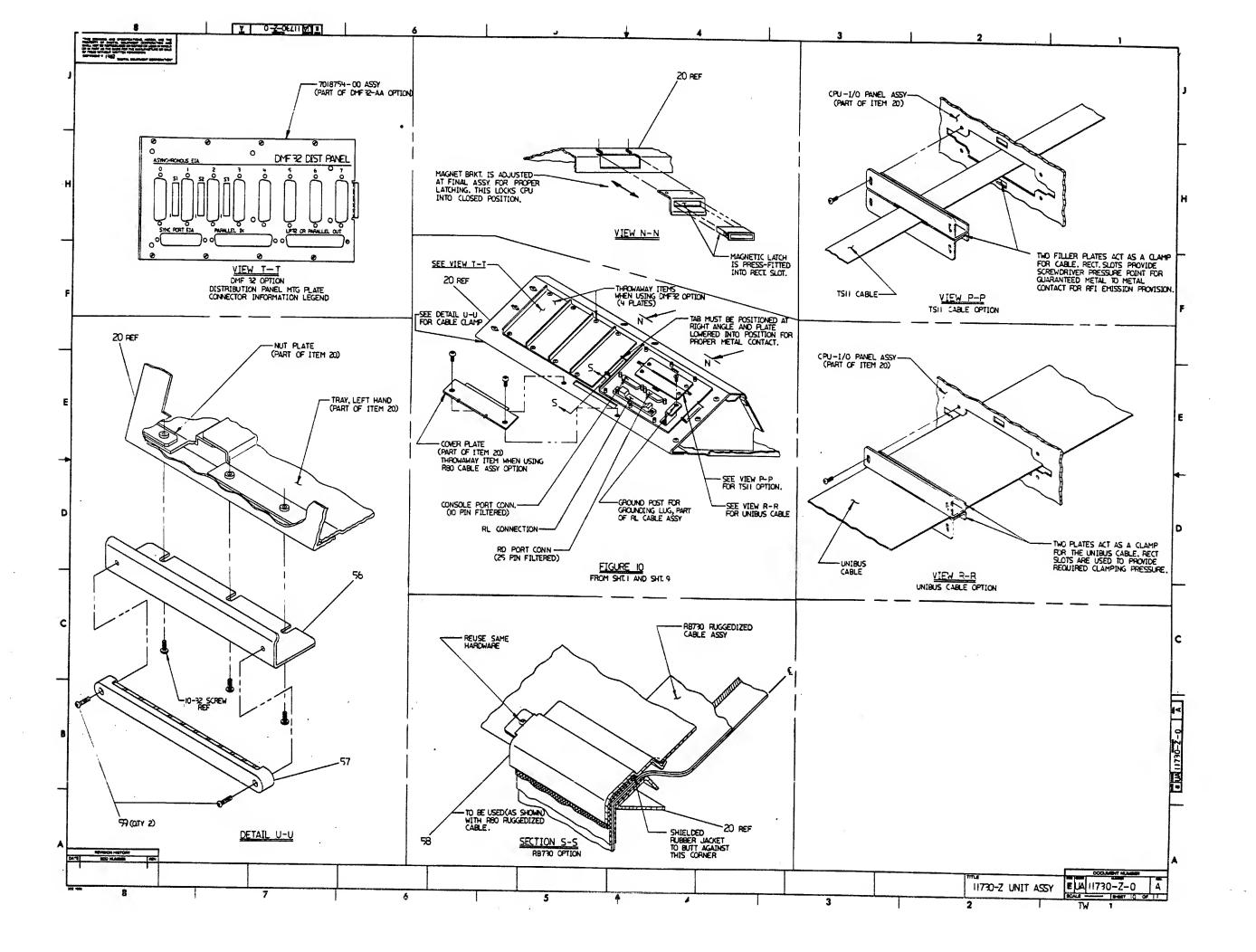


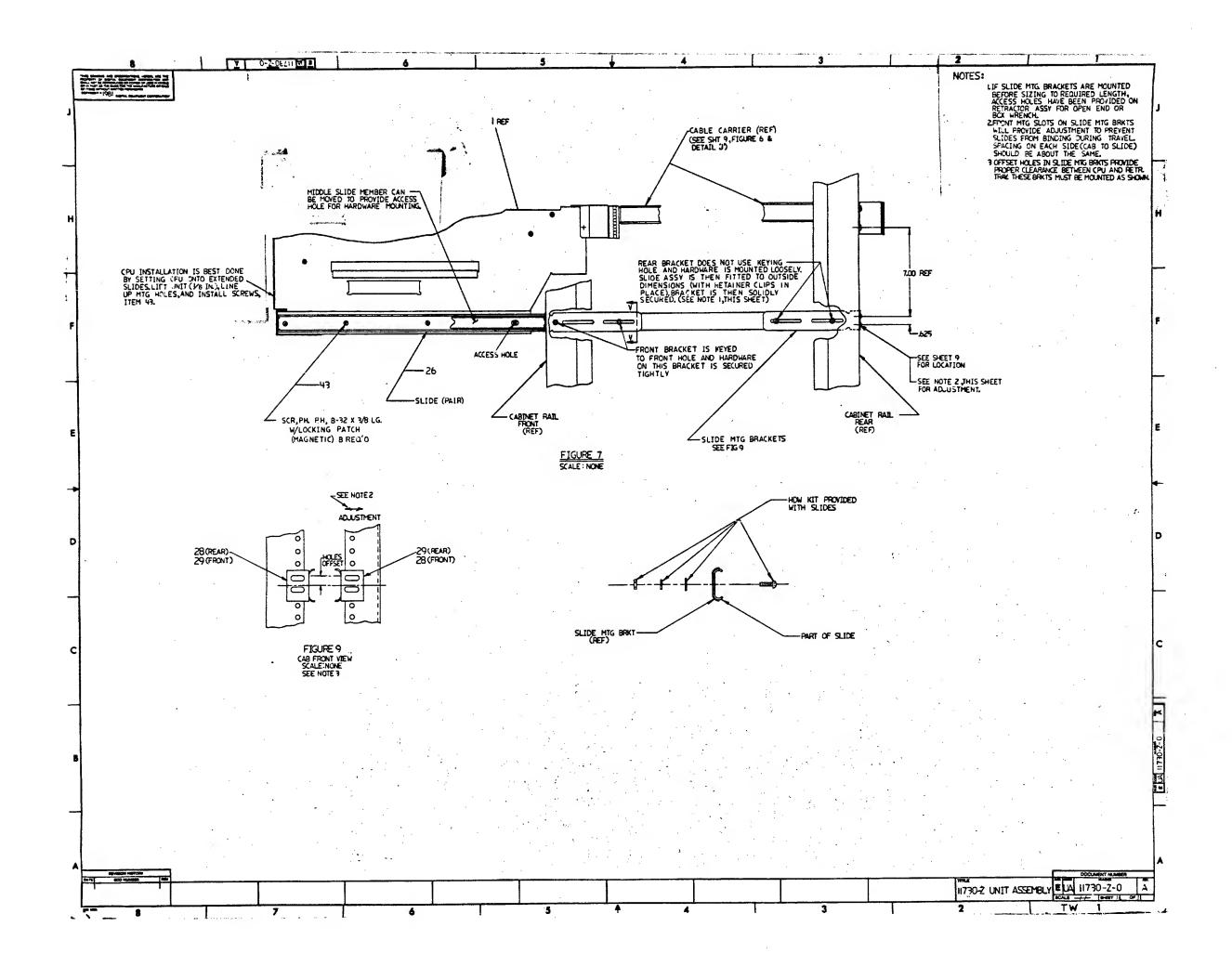












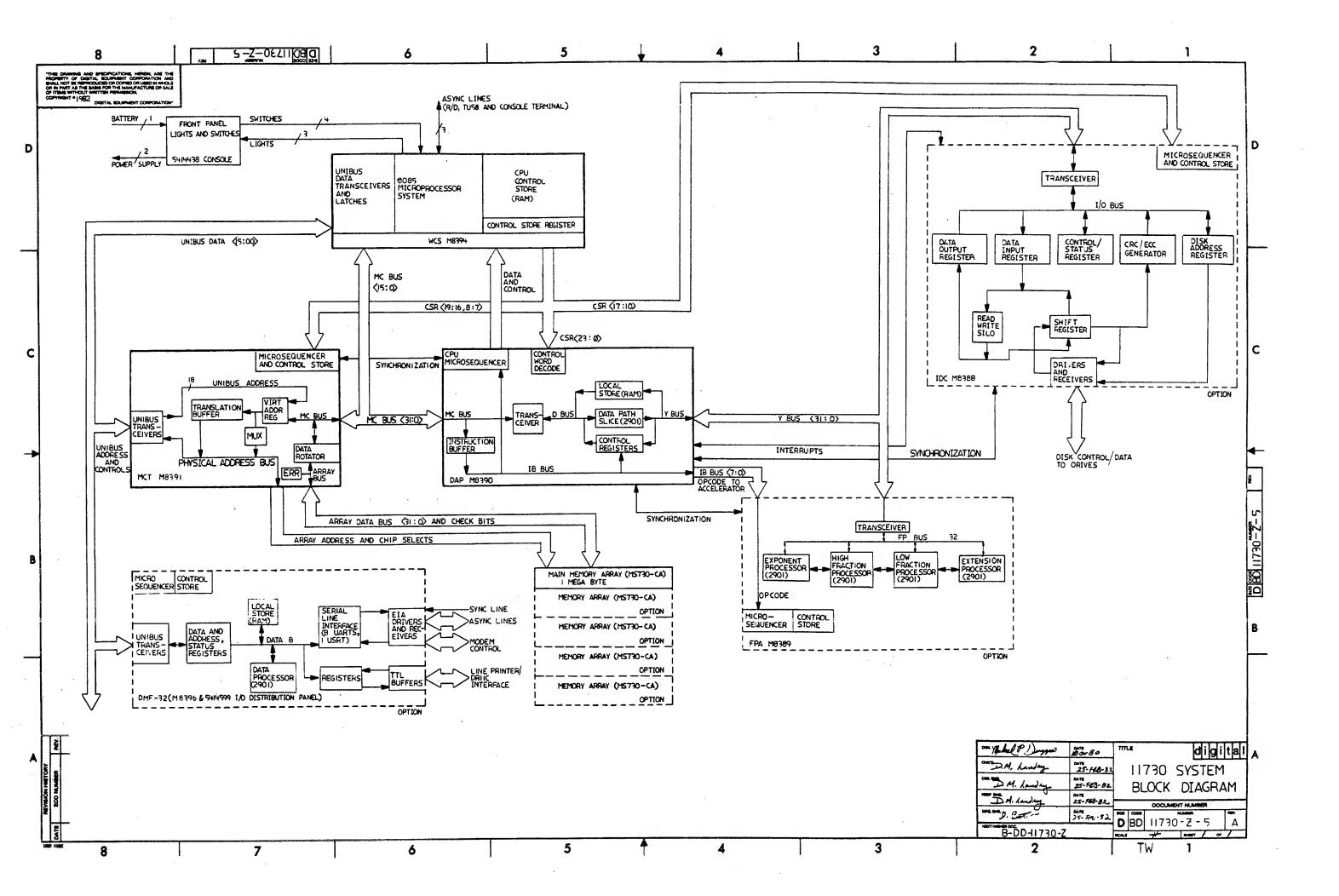
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									•							•	
	1 2	2	E-UA-BA11 E-AD-7018	•	ØBA1 36158J 701807	9-00		BOX,H7202-B,120V C CARTRIDGE .150		•				•			
	4 5	5	E-AD-7018 B-DD-RB73	114-3-2 0-0	701811 R873	4-00 0-00	DUAL TU58 DR INTEGRATED D	IVE ASSY. ISK CONTROL FOR		•							
	6 7	7	B-DD-FP73 B-DD-KA73 D-UA-M839	Ø-A	FP73 KA73 M839	Ø-A	CPU MOD SET DAP (DATA PA	NT PROCESSOR (M8	389) REF 1: REF								
	9	9	D-UA-M839 D-UA-M839	1-0-3	M839 M839	1-00	MCT (MEMORY WRITEABLE CO	CONTROLLER) HEX NTROL STORE, HEX,	REF FOR REF							-	
٠.	11. 12	12	B-DD-MS73 8-DD-G727	3-0	MS73 G727 DMF3	3-00	8US GRANT. &	ECC MEYORY EXPAN NON-PROCESSOR GR SLU, SYNC SLU, PAR	ANT. 5		• ·				•		
	13 14 15	14	B-DD-DNF3 B-DD-M93Ø D-IA-7Ø11	2-8	веем	2-00	UNIBUS TERMI		11.								
	16 17	16 17	D-TA-7011 D-TA-7011	411-8-9	7 9 1 1 4 1	1-Y A	CABLE, CONSO	LE BACKPLANE LE BACKPLANE	1.								
	18 19 20	19	D-IA-7018 C-IA-7018 E-AD-7018	974-9-9	701807	4-6F		ADLE B-MINATURE CABLE TRACTOR ASSY	2 1:								
	21 22	21 22	C-IA-7018 C-IA-7018	720-0-0 718-0-0	7Ø1872 7Ø1871	7-99 8-99	CATCH PAN AS PRESSURE SHE	SY. ET ASSY.	1								
	23 24 25	24	A-PS-1209 C-IA-7018 A-PS-1217	772-0-1	7Ø1877	2-00	CLIP, MODULE CLAMP ASSY FILTER, AIR F	HOLDER W/O SEPA	1				•	٠			
	25 26 27	26	A-PS-1218 A-PS-1219	166-0-	7 121816 7 121902	6-00 0-00	CHASSIS SLID CABLE CARRIE	E 24.88 EXTENDED	LG 1.								
	28 29 30	28 29 3Ø	D-MD-7425 D-MD-7425 A-PS-1700	374-8-	742537	4-00	SLIDE MTG BR	NG BRACKET, RIGHT ACKET LEFT M. 841N, 18-3 125	2		•				·		
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AUTOMATED BY PRILST.3P(44)		PARTS LIST		SHEET AZ OF AZ
LINE ITEM DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	NETATITY PER VARIATION Za	
31 31 A-PS-1700083-0-0	1700783-21	PWR CORD, TERM. 84IN, 18-3 250V 6	1	•
32 32 C-MD-7425927-8-8	7425927-88	GUIDE + CLAMP	1.	
33 33 C-IA-7425928-Ø-Ø	7425928-00	BRACKET, CARRIER/BOX	<b>1</b> .	•
34 34 C-MD-7425929-Ø-Ø	7425929-00	BRACKET, CABINET/CARRIER	1.	
35 35 A-PS-3618537-2-0	3618537-Ø1:	LABEL, HODULE UTILIZATION	1.	
<b>36 36</b> ··	BET173A-DE	VAX 11738 CONCOLE	1	•
37 37 A-PS-3617880-0-0	3617880-09	LABEL, NON-COMPLIANT FCC	1:	
38 38 A-DC-3617674-8-0	3617674-00	LABEL, SERIAL & POWER, UNIVERSAL	1.	
39 39	9009701-00	SCREW, PAN, PHIL, SEMS 6-32X .312L	2	
40 40	9006075-03	SCREW, TRUS, PHIL, 12-32X 3/4	4	
41 41.	9009636-00	CLAMP, CABLE, FOR FLAT CABLE	2	
42 42	9006037-03	SCREW, TRUS, PHIL, 8-32X 3/8	7	
43 43	9010309-00	SCREW, PAN, PHIL 8-32X .375L	<b>8</b> ·	
44 44	9009700-00	SCREW, TRUS, PHIL, SENS10-32X .500L	14	· ·
45 45	9007786-00	RETAINER, U-NUT, 10-32	. 12	
46 46	9007031-00	TIE, CABLE BUNDL.DIA 0- 3/4"=101:	. 8	
47 47	9006563-00	NUT, KEP 8-32X 11/13AF	4	
48 48 B-IA-7426335-Ø-Ø	7426335-81	STUD PLATE	4 '	
49 49 A-PS-1215700-0-0	1215700-04	CABLE ASSY, NYLON, 11"LG	1.	
5Ø 5Ø	9006660-00	WASHER, FLAT, .375 O.D. X .187. I	2	
51 51 A-PA-3700662-0-0	3700662-91	PKG 11730-ZACPU	1:	
52 52	9006565-00	NUT, KEP 18-32X 3/8 AF	9	
53 53 C-HD-7413659-0-0	7413659-00	BRACKET SHIPPING	1.	
54 54 A-PS-3613211-0-0	3613211-00	DECAL, CLEAR PREPRINTED CSA 1-1/4	1:	
55 55 A-PS-3612063-0-0	3612063-00	LABEL, ADHESIVE I.D. FOR UL C	1.	
56 56 D-IA-7426625-Ø-Ø	7426625-01:	CLAMP, TABLE, DMF	1	
57 57 B-IA-7426723-0-0.	7426723-01:	BARCLAMP ASSY.	1:	
58	7426623-81	CLAMP, R83 TABLE	1:	•
59	9006028-01	SCREW, PAN, PHIL 6-32X1 SS	2	
60 50	9006037-01:	SCREW, PAN, PHIL 8-32X 3/8 SS	2	
61	•	11730-ZA HARDWARE KIT LIST	REF.	
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	DIGITAL	QUIPMEN	T CORP	ORATION				QU	ANTI	TY/V	'ARI	ATION	l		NO.	TES:		
		PARTS LI	ST					T				T			_			LALIMANA PARA
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ENG DAT		PROD S.O. Cast DATE 25 FE88	zlini Z	ISSUED SECTION	1730-													
ITEM NO.	DRAWING NO.	PART NO.		DESCRIPTION						-							REF DESIGNATION	
1 2 3 4 5 6 7 8 9 10 1 12 3 14 5 6 17 8 9 20 1 12 3 14 5 6 7 8 9 10 1 12 3 14 5 6 7 8 9 10 11 12 13 14 15 6 7 8 9 10 11 12 13 14 15 10 10 10 10 10 10 10 10 10 10 10 10 10	E-UA-11730-Z-0 E-AD-7018779-0-0 C-IA-7018718-0-0 D-MD-7425374-0-0 C-MD-7425927-0-0 C-IA-7425928-0-0 C-MD-7425929-0-0 B-IA-7426335-0-0 D-IA-7426625-0-0 B-IA-7426723-0-0 C-MD-7413659-0-0	7018718-00 7425374-00 7425374-01 7425927-00 7425928-00 7425929-00 7426335-01 7426625-01 7426723-01 7413659-00 1215700-04 1218166-00 1219020-00 1700083-21 1700083-22	CARRIER, CA AC LINE CORD AC LINE CORD MEDIA CARTRI	PRACTOR ASSY ET ASSY E	111221114111111111111111111111111111111										· C	PU BOX ONI	Y	
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NO.	DRAWING NO.	PART NO.		DESCRIPTION		117												REF DI	SIGNATI	ON		,
1.		9006037-03	SCR.TRUS,PH	IL,8-32x3/8 <b>L</b>		5										(ITEM 42			PRESSURE	SHEET ANI	)	
2.		9010309-00	SCR,PAN,PHI	L,8-32x3/8L W/PATC	H	8										(ITEM 43	3) TC	MOUNT	SLIDES T	о сри		
3.		9009700-00	SCR,TRUS,PH	IL SEMS,10-32x1/2L		14										(ITEM 44			SLIDE MT ER BRKT,	G BRKTS CARRIER/BO	X BRK!	r
4.		9007786-00	RETAINER,U-	NUT,10-32		12										(ITEM 45			SLIDE MT AB BRKTS	G BRKTS AM	ID .	
5.		9007031-00	TIE,CABLE			8										(ITEM 46	) то	TIE CA	BLES TO	CABLE CAR	UER	
6.		9006563-00	NUT, KEF, 8-3	2		2										(ITEM 47	') FO	R TETHE	R LINE			
7.		9006660-00	WASHER, FLAT	2,#8		2										(ITEM 50	) FO	R TETHE	R LINE			
8.		9006565-00	NUT,KEP,10-	-32	,	1										(ITEM 52	) FO	R SHIPP	ING BRKT			-
9.		9006028-01	SCR,PAN,PHI	L,6-32x1.0L	,	2										(ITEM 59	) BA	R CLAMP	TO DMF	CABLE CLAM	æ	
10.		9006037-01	SCR, PAN, PHI	IL,3/8 <u>†</u>		2										(ITEM 60	) FO	R TETHE	R LINE			
11.		9906557-03	BAG, POLYETI	YLENE, RECLOSABLE	*	1																
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## FIELD MAINTENANCE PRINT SET

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B-TC-BA11-Z-1	FIELD MAINTENANCE PRINT SET MP01266
B-DD-BA11-Z	BA11-Z BOX ASSY-DRAWING DIRECTORY
E-UA-BA11-Z-O	BA11-Z BOX ASSY
K-PL-BA11-Z-DBP	BA11-Z BOX ASSY-PARTS LIST
E-AD-7018081-0-0	MODULE FAN ASSY
K-PL-7018081-0-DBP	MODULE FAN ASSY- PARTS LIST
D-IA-7018161-0-0	DC HARNESS ASSY
K-PL-7018161-0-DBP	DC HARNESS ASSY- PARTS LIST
D-IA-7018162-0-0	SENSOR POMER CABLE
K-PL-7018162-0-DBP	SENSOR POHER CABLE - PARTS LIST
B-DD-5414340-0	AIR FLOW DETECTOR ASSY- DRAWING DIRECTORY
D-UA-5414340-0-0	AIR FLOW DETECTOR ASSY
K-PL-5414340-0-DBP	AIR FLOW DETECTOR ASSY - PARTS LIST
B-DD-7018080-0	11730-Z BACKPLANE ASSY - DRAWING DIRECTORY
D-AD-7018080-0-0	11730-Z BACKPLANE ASSY
K-PL-7018080-0-DBP	11730-Z BACKPLANE ASSY - PARTS LIST
K-WL-7018080-0-1	11730-Z BACKPLANE ASSY - WIRE LIST
A-WT-7018080-0-2	11730-Z BACKPLANE ASSY - REV STATUS
MP02157	H7202 LEM PHR. SUP. FIELD MAINT. PRINT SET (COMPLETE)
D-CS-5414340-0-1	AIR FLOW DETECTOR ASSY - CIRCUIT SCHEMATIC

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BAII-Z

Field Maintenance Print Set

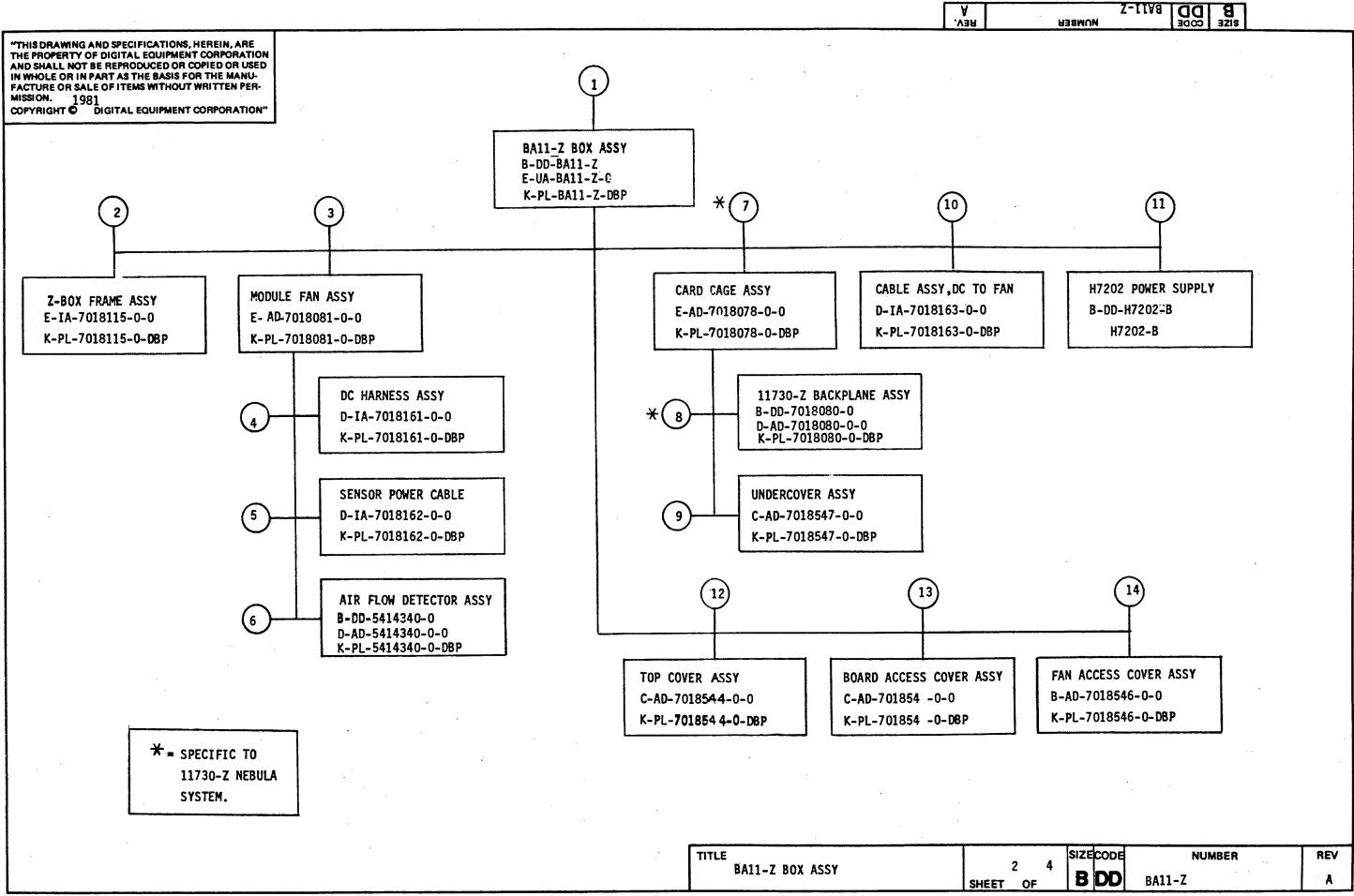
Digital Equipment Corporation

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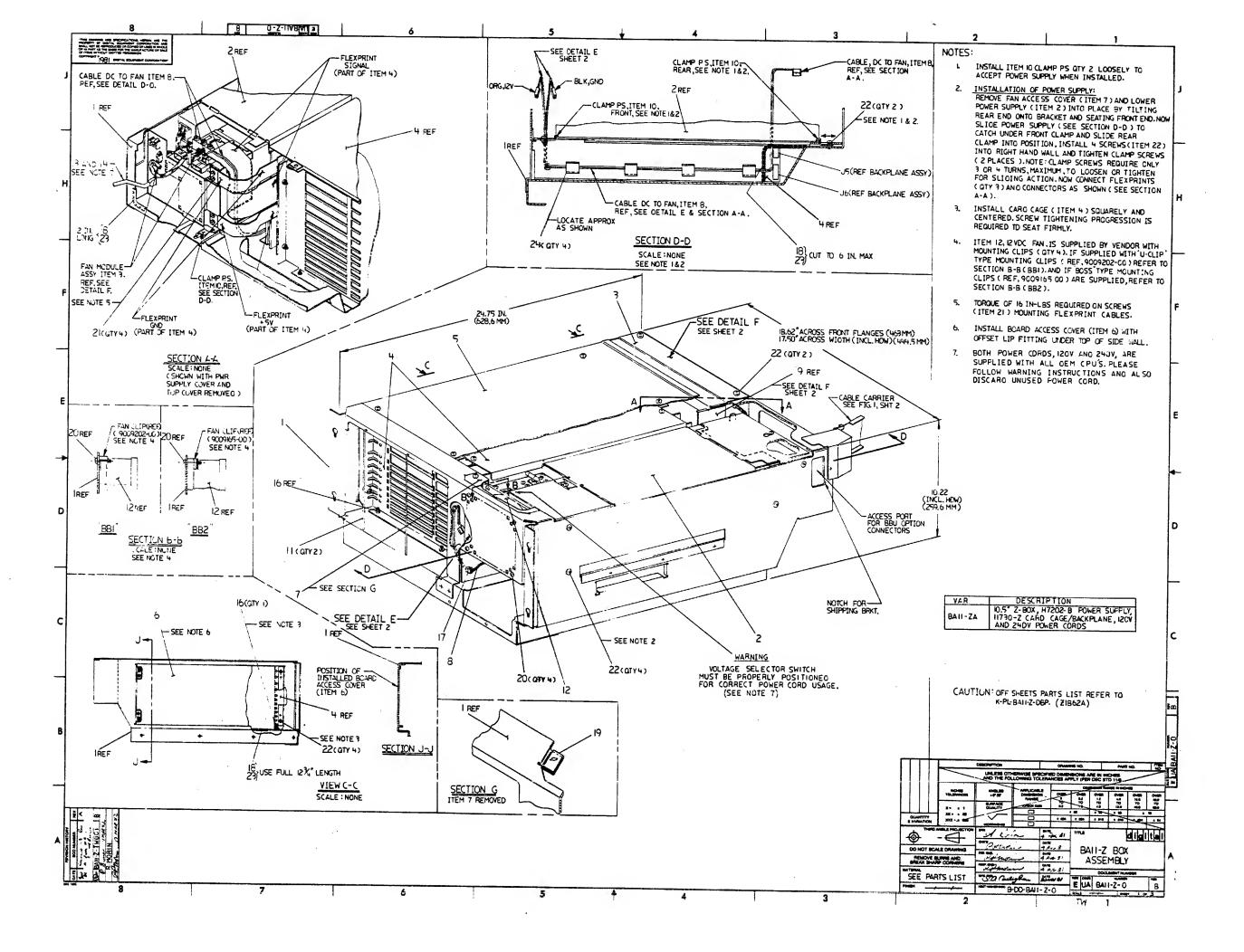
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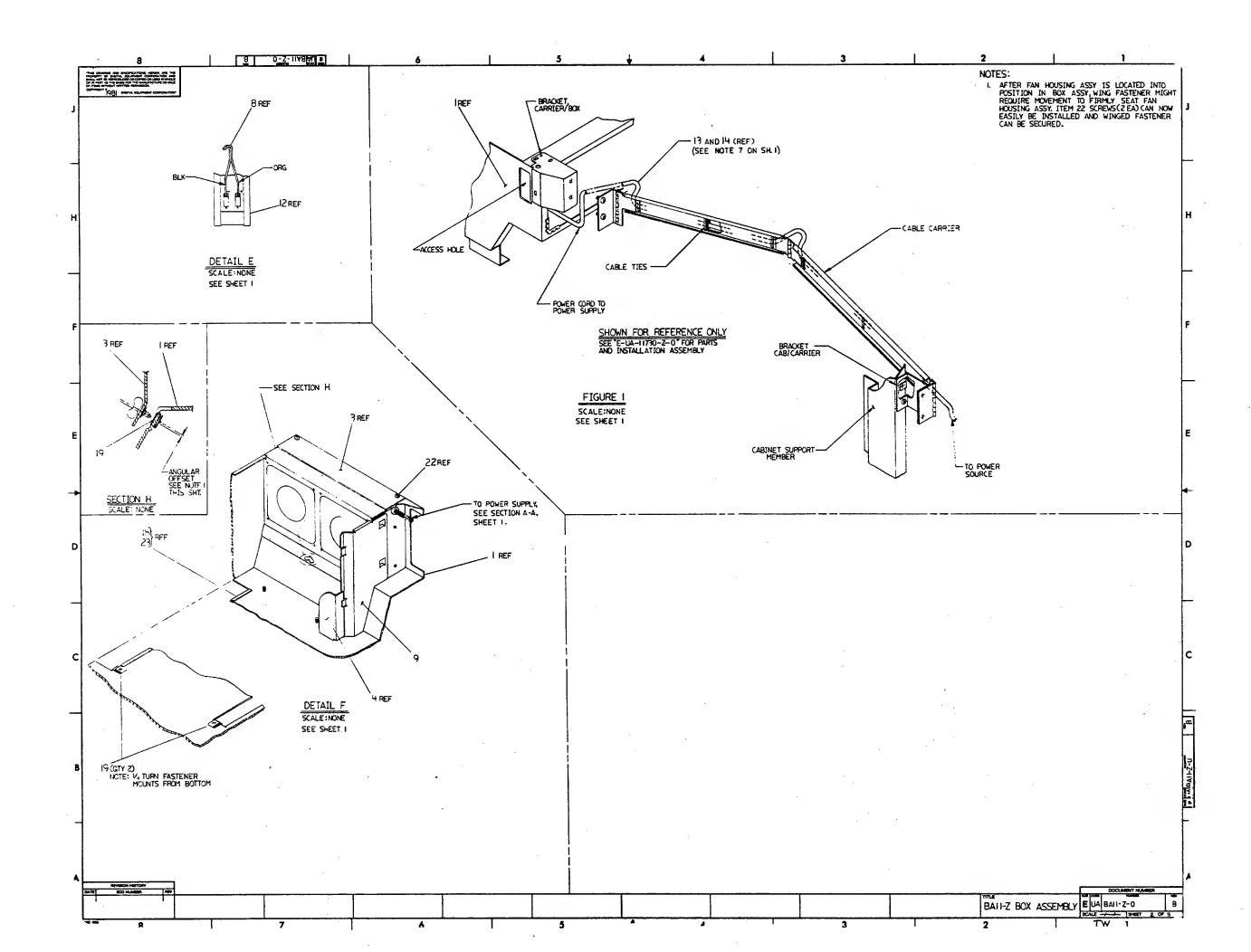
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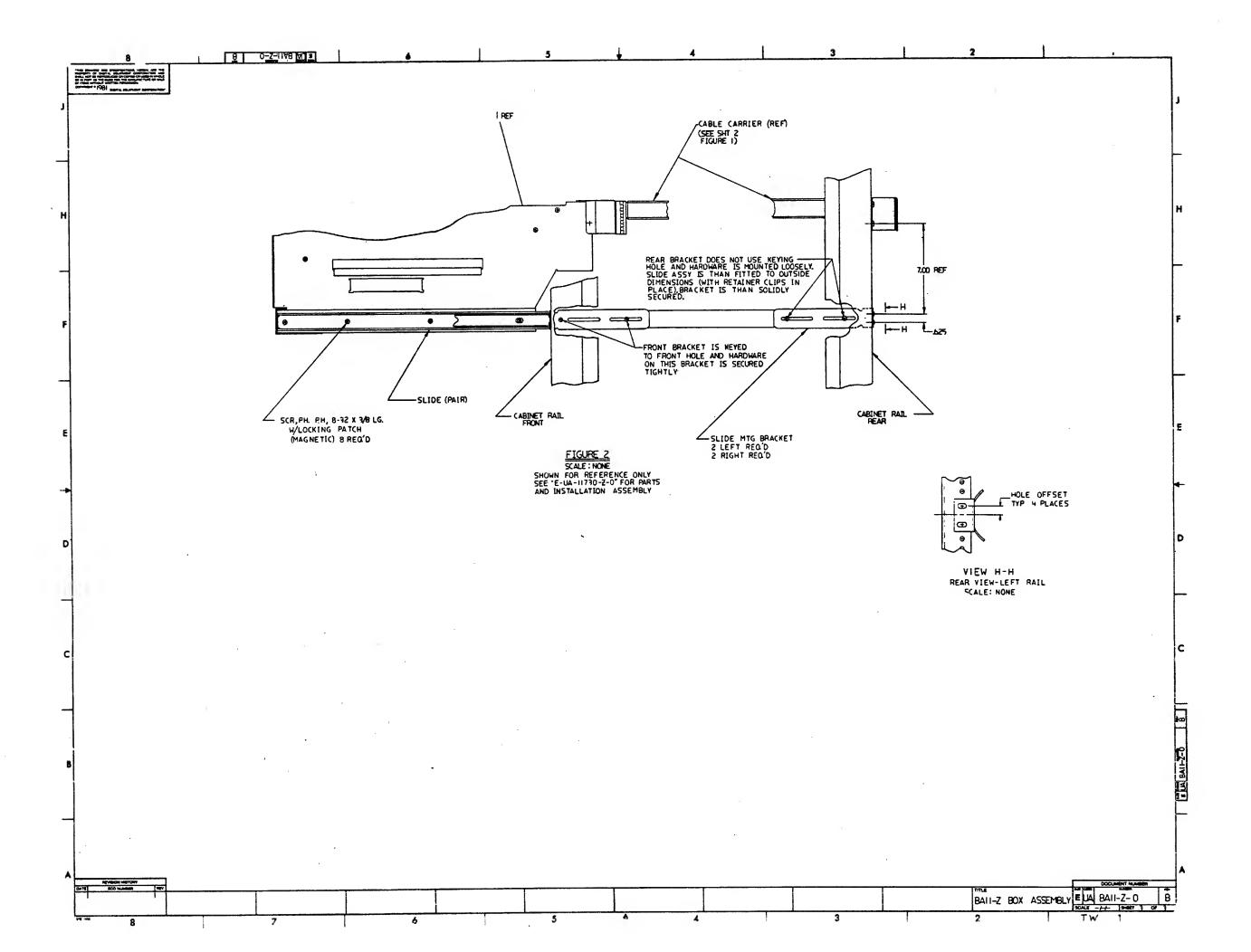


FIND NO.	DRAWING NO.	DESCRIPTION	ТҮРЕ	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP01266	FIELD MAINT, PRINT SET (MP)	•	5	D-IA-7018162-0-0	SENSOR POWER CABLE	E/N
	B-TC-BA11-Z-1	FIELD MAINT, PRINT SET (TC)	-		K-PL-7018162-0-0	SENSOR POWER CABLE-PARTS LIST Z1862	
	B-DD-BA11-Z	BA11-Z BOX ASSY-DRAHING DIRECTORY	-				-
	E-UA-BA11-Z-O	BAII-Z BOX ASSY-UNIT ASSY	E/M.	-			
	K-PL-BA11-Z-DBP	BA11-Z BOX ASSY-PARTS LIST Z1862	-				
	D-MD-7424850-0-0	BAFFLE , ENP PLATE	M				
	C-1A-7425373-0-0	CLAMP , POWER SUPPLY	M				<del></del>
	C-MD-7425571-0-0	MIRE, SUPPORT	M	6	B-DD-5414340-0	AIR FLOW DETECTOR ASSY	E/M
	A-PS-1217556-0-0	FAN DC	E/M.		D-UA-541434-0-0	AIR FLO! DETECTOR ASSY	E/M
	A-PS-1700083-0-0	AC LINE CORD	E/M		K-PL-5414340-0-DBP	AIR FLOW DETECTOR ASSY - PARTS LIST	F/M
					D-CS-5414340-0-1	AIR FLOW DETECTOR ASSY - CIRCUIT SCHEM.	E
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				7	E-AD-7018078-0-0	11730-Z CARD CAGE ASSY *	M
	5 74 7010115 0 0	Y DAY FDANE ACCY			K-PL-7018078-0-DBP C-MD-7423051-0-0	11/30-Z CARD CAGE ASSY-PARTS LIST Z1828	-
2	E-IA-7018115-0-0 K-PL-7018115-0-DBP	Z-BOX FRAME ASSY Z-BOX CHASSIS ASSY-PARTS LIST Z1858	- 11	<u> </u>		ROD , SUPPORT	М
			•	<u></u>	E-IA-7424830-0-0	CARD CAGE (FRONT AND REAR)	М
	E-IA-7424819-0-0	BASEPLATE BASEPLATE-PARTS LIST Z1859			B-MD-7425257-0-0	CARD GUIDE, SINGLE SHORT	М
	K-PL-7424819-0-DBP E-IA-7424820-0-0	WALL , LEFT SIDE		<u> </u>	A-PS-1212405-0-0	CARD GUIDE, NYLON	М
	E-IA-7424821-0-0	WALL , RIGHT SIDE		-			
	E-MD-7424822-0-0	SHELF SUPPORT	M	-			
	E-MD-7424823-0-0	BRACE FRONT	M				
				8	B-DD-7018080-0-0	11730-Z BACKPLANE ASSY-DRAHING DIRECTORY	
	-			<u> </u>	D-AD-7018080-0-0	11730-Z BACKPIANE ASSY *	E/M E/M
					K-PL-7018080-0-DBP	11730-Z BACKPLANE ASSY-PARTS LIST Z0715	C/F1
					K-WL-7018080-0-1	11730-Z BACKPLANE ASSY - WIRELIST	
3	E-AD-7018081-0-0	MODULE FAN ASSY	E/M		A-WT-7018080-0-2	11730-Z BACKPLANE ASSY - MIKELIST	E
	K-PL-7018081-0-DBP	MODULE FAN ASSY-PART LIST			A-DC-7411881-0-0		
	D-MD-7424831-0-0	FAN HOUSING	M		D-MD-7425344-0-0	PROTECTIVE COVER	
	C-MD-7424849-0-0	FAN BAFFLE	M		C-MD-7425372-0-0	SPACER	M
	A-PS-1217556-0-0	FAN DC	M		A-PS-1700238-0-0	CIRCUIT, FLEX, SIGNAL	M E/M
					A-PS-1700239-0-0	CIRCUIT FLEX POWER	
					F-MD-5014598-0-0	DRILL AND ETCH BOARD	E/M
						DATE NO ETCH BURKU	E/N
4	D-IA-7018161-0-0	DC HARNESS ASSY	E/M				
	K-PL-7018161-0-DBP	DC HARNESS ASSY-PARTS LIST Z1851					
				9	C-AD-7018547-0-0	UNDERCOVER ASSY	M
_					K-PL-7018547-0-DBP	UNDERCOVER ASSY-PARTS LIST Z2449	_
					E-MD-7424829-0-0	UNDERCOVER	M
		·				* SPECIFIC FOR 11730-Z ASSY.	
T)/-	F. F. FLEOTELON						
i YP	E: E ELECTRICAL M MECHANICAL		digital	TITLE	BA11-Z BOX ASSY	SIZE CODE NUMBER	REV
	E/M ELECTRO/MECHANICAL				DUTT-5 DAY WOOL	SHEET 3 OF 4 B DD BA11-Z	A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION
10	D-TA-7018163-0-0	CABLE DC TO FAN	E/M			
10	D-IA-7018163-0-0 K-PL-7018163-0-DBP	CABLE, DC TO FAN CABLE, DC TO FAN-PARTS LIST Z1853	-			
	WEGG453	WITCOS POUED CURRY POINT CET (MR)				
_	MP02157 B-TC-H7202-0-1	H7202 POWER SUPPLY PRINT SET (MP) H7202 POWER SUPPLY - (TC)	-			·
	B-DD-H7202-B	H7202 POWER SUPPLY	E/M			
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12	C-AD-7018544-0-0	TOP COVER ASSY	M			
	C-AD-7018544-0-0 K-PL-7018544-0-DBP	TOP COVER ASSY TOP COVER ASSY-PARTS LIST Z2444	-			
	E-MD-7424827-0-0	TOP COVER	М			
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			- 4			
13	C-AD-7018545-0-0	BOARD ACCESS COVER ASSY	М	<b>∤</b> ├		
	K-PL-7018545-0-DBP	BOARD ACCESS COVER ASSY-PARTS LIST Z2577	M	┨┝╼╼		
-	D-MD-7424824-0-0	BOARD ACCESS COVER	<u> </u>	$\dagger \dagger$	<del></del>	
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		TANK AGOSTO AGUED ACCV	М	<b>∤├</b> ──	<u> </u>	
14	B-AD-7018546-0-0 K-PL-7018546-0-DBP	FAN ACCESS COVER ASSY FAN ACCESS COVER ASSY-PARTS LIST Z2578	- In	┨┝──		
			M	┧┝──		
	C-MD-7424825-0-0	FAN ACCESS COVER ASSY		1		
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TYP	E: E ELECTRICAL M MECHANICAL	dig	ital	TITI	BA11-Z BOX ASSY	SHEET 4 OF 4 B DD BA11-Z A
DRB	E/M ELECTRO/MECHANICA 108A	L L-J-L-S-		1		TW







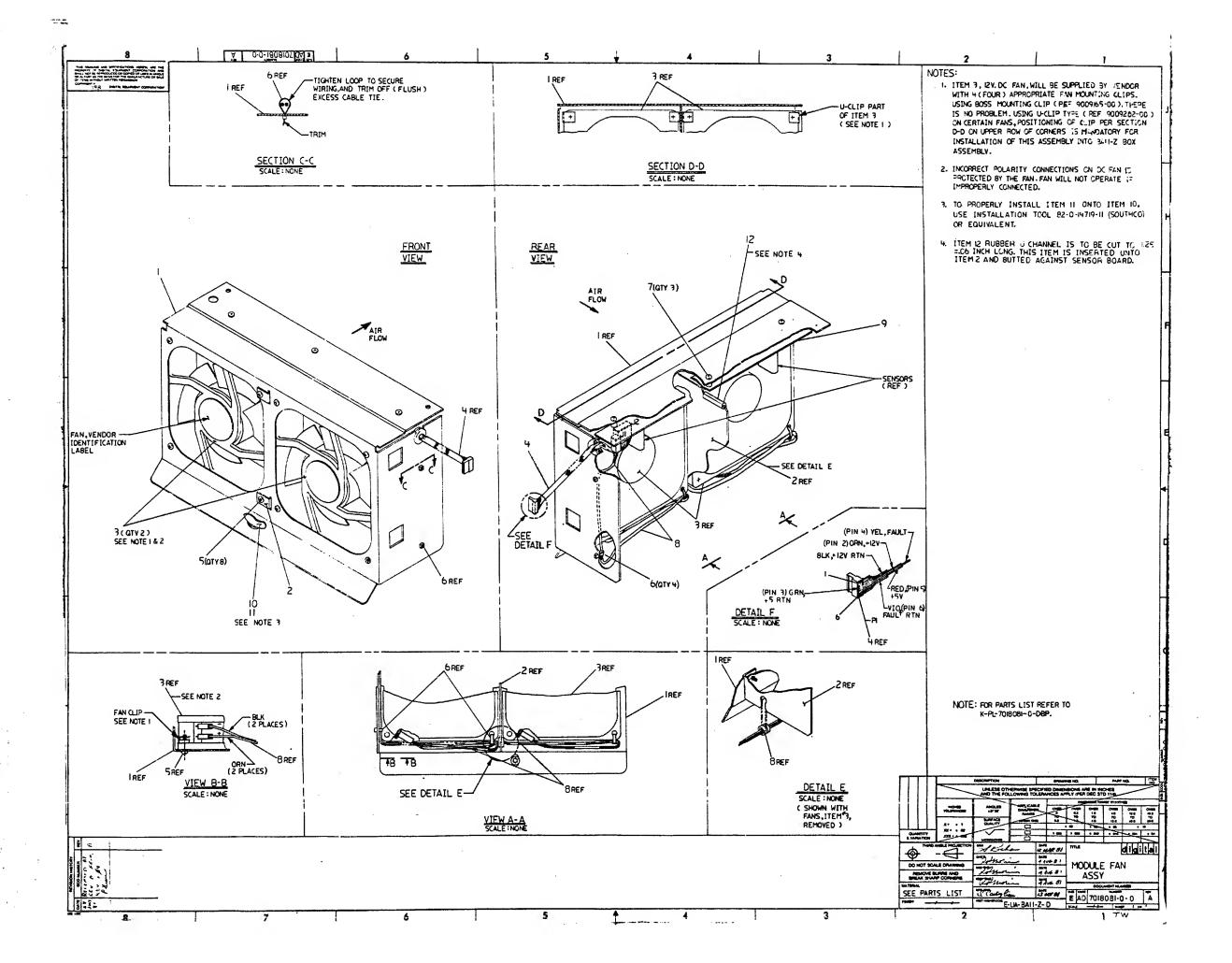
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	AUTOMATED	BY PRTLST.3P(44)  DOCUMENT NUMBER	PART NUMBER	PARIS LIST DESCRIPTION	QUANTITY PER VARIATION	SHEET A1 OF A1
		E-IA-701B115-0-0 B-DD-H7202-0-0 E-AD-7018081-0-0 E-AD-7018578-0-0 C-AD-7018545-0-0 C-AD-7018545-0-0 B-AD-7018545-0-0 D-IA-7018545-0-0 D-IA-7018545-0-0 C-IA-7424B50-0-0 C-IA-7425373-0-0 B-MD-7425571-0-0	7018115-00 H7202-B 7018081-00 7018078-00 7018544-00 7018545-00 7018545-00 701856-00 7424850-00 7425373-00 7425571-00 1700083-22 1700083-21 9005565-00 9007015-00 9007015-00 9007035-00 9009984-01 9009988-08 9010174-01 9009157-00 9009157-00	Z-BOX FRAME ASSY. NEBULA POW SUP: H7200, H7211, H721 FAN ASSY CARD CAGE ASSY TOP COVER ASSY. BOARD ACCESS COVER ASSY. FAN ACCESS COVER ASSY. CABLE DC TO FAN PLATE, BAFFLE END CLAMP.PS SUPPORT, WIRE FAN, 108CFM, 12VDC, AXIAL, 4.5"DIA PWR CORD, TERM. B4IN, 18-3 125V 15 PWR CORD, TERM. B4IN, 18-3 250V 6 *** THIS ITEM IS NOT USED *** NUT, KEP GROMMET, RUBBER GROMMET, SEMS, PHILLIPS PAN HD 6- SCREW, SEMS, PHILLIPS PAN HD 6- SCREW, SEMS, SLOTTED HEX HD B-32 SCREW, PAN, PHIL, SEMS B-32X .31 L ADH, LIQ.RM.TEMP CURING COLORLESS CLAMP, CABLE, FOR FLAT CABLE	130-64 10-0-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	

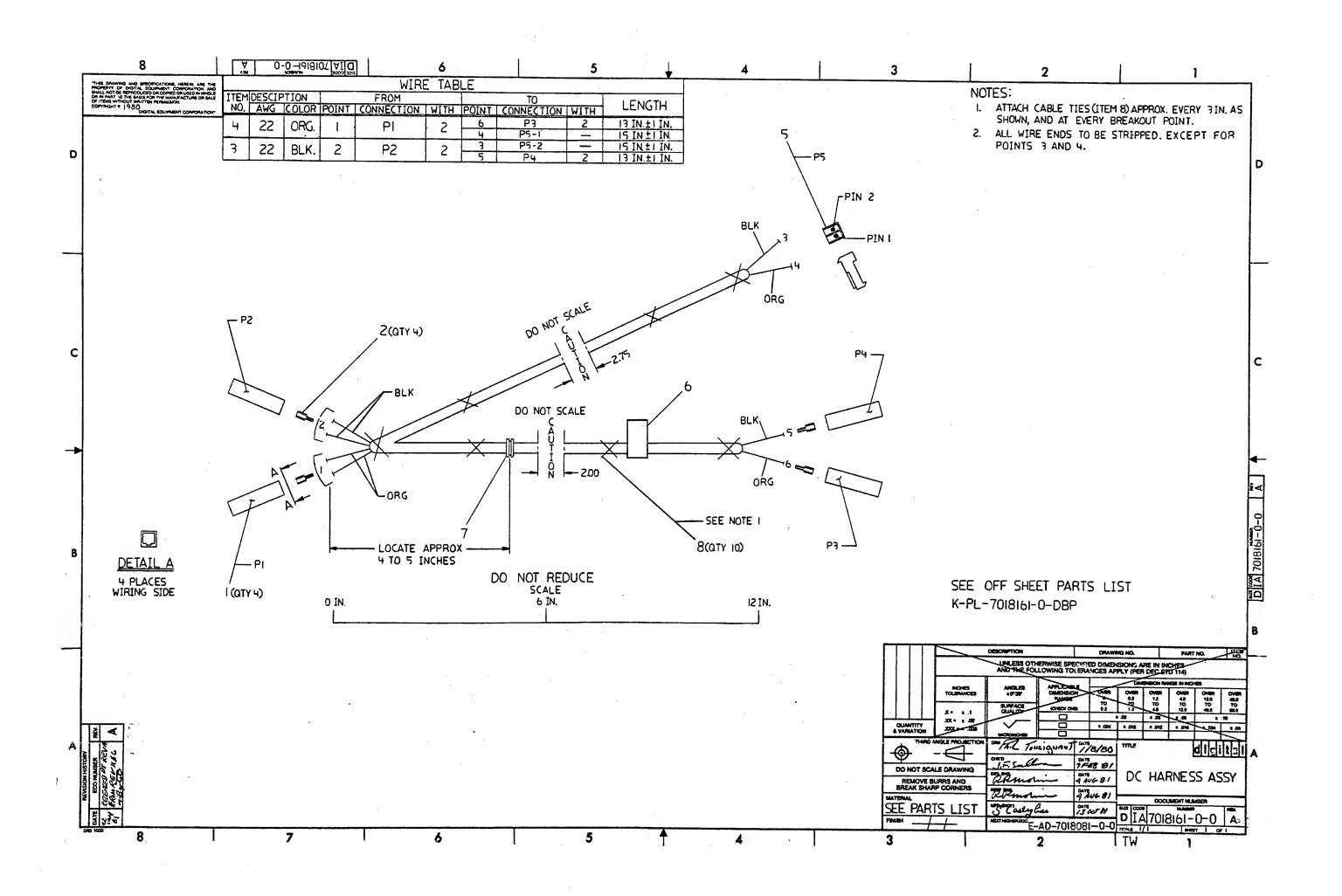
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	ENG! ECO NUMBER	REV	SECTION A	OF A		1			3		:	•	PARTS	LIST	
	! INITIAL !INITIAL	XA	SECTION. \ [A] ZA,ZE	/ARIATION	INDEX	CHK'D:	R.	MORIN +++++++	DATE:	16-NOV-B1	BA1	1-Z B	OX ASSY		;
			[B]			DES.ENG.:	R.	MORIN	DATE:	16-NOV-81	i i	++++	++++++	-+++++	.++++++
	*	! ! !	[0]			RESP.ENG.:	R.	MORIN	DATE:	16-NOV-81	++++	++++	+++++++	T NUMBER	. REV
		į	[D]			i		++++++++++	Į.		!!				KEY
		į	[E] "	•		MFG.ENG.:	5.9	CASTIGLIONE	DATE:	30-JUL-81	K .	PL !	BA11-Z-	DBP +++++++	A +++++
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AUTOMATED BY FRTLST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	QUANTITY PER VARIATION	SHEET AL OF AL
1	7424831-00 7424849-00 1217556-00 7018162-0M 9009984-01 9007031-00 9009643-02 7018161-00 5414340-00 9010308-00 90103533-00	HOUSING FAN BAFFLE FAN BAFFLE FAN FAN 1030FM. 12VDC, AXIAL, 4.5"DIA SENSOR PWR CABLE SCREW, SEMS, PHILLIPS PAN HD 6- TIE CABLE BUNDL DIA 0- 3/4"=101 SCREW, PAN, SLOT, SEMS 4-40X .250L DC HARNESS ASSY AIR FLOW SENSOR FASTAR. 1/4 TURN, WING HD RETAINER, FUSH-ON SS/PAS CHANNEL"U"EXTRUDED RUBBER		

13 NOTE: 1 OUT LENGTH OF ITEM 12 TO BE 1.25+\-.O6 INCH

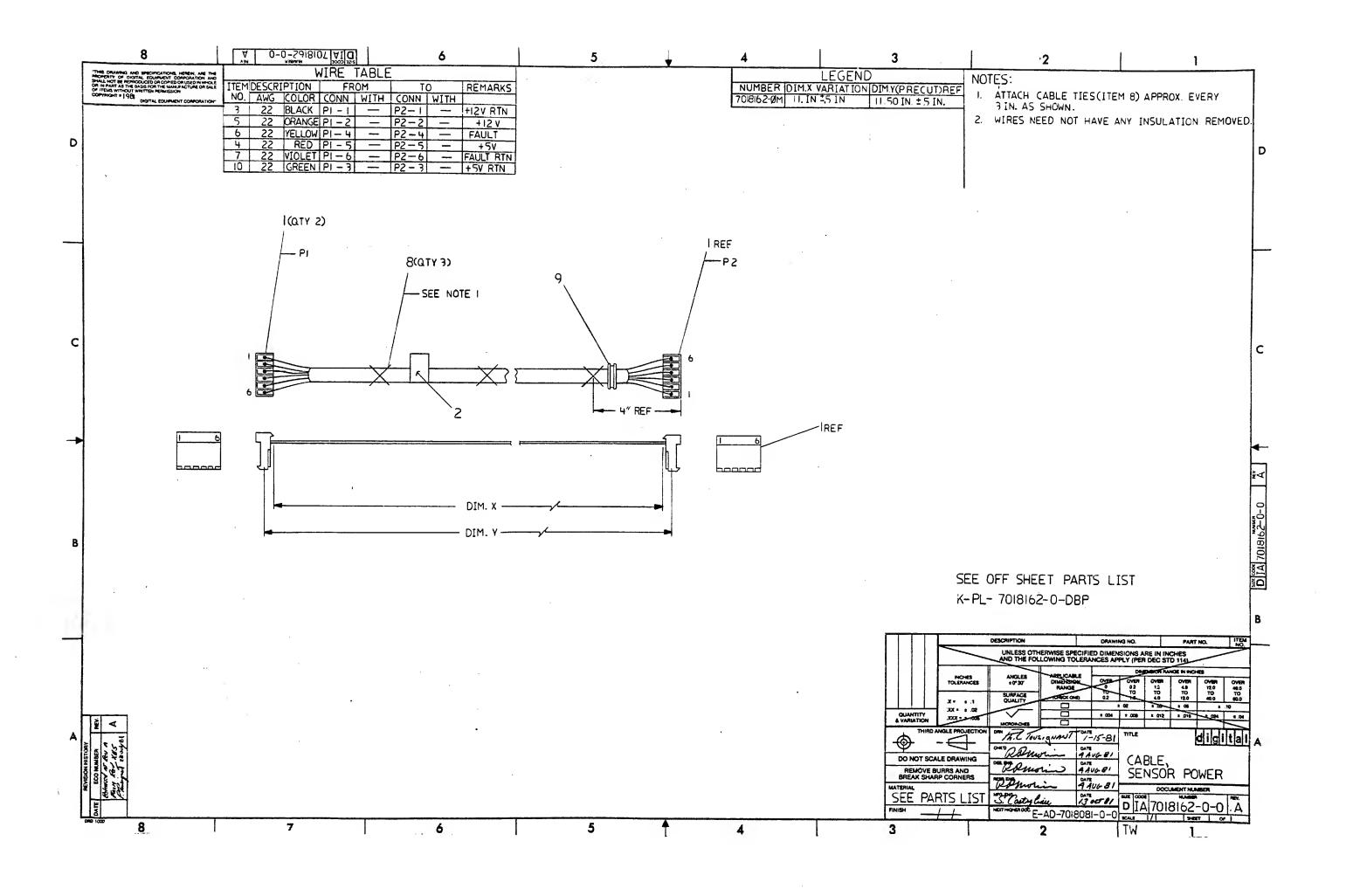
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ENG!	ECO NUMBER INITIAL	12726	SECTION A OF A SECTION. VARIATION [A] OO	INDEX	CHK'D:	A.	ROCHA	DATE:	28-JUL-81	TITLE MOD		PARTS LIST AN ASSY	
			[B] 1		DES.ENG.:	R.	MORIN	DATE:	28-JUL-81		++++		*
			[C]	•.	RESP.ENG.:	R. +++	MORIN	DATE:	28-JUL-81	++++ SIZE	coDE!	DOCUMENT NUMBER NUMBER	REV
			[E]		MFG.ENG.:		++++++++++	+++++		!++++!	++++!	7018081-0-08P	A +++++
			[F]		ASSEMBLY NU E-AD-701808	31-6	)-0	E-UA-	OCUMENT NUMI BA11-Z-O ++++++		1 1	21848A.PLS	EDIT
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AUTOMATED BY PRILST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	GUANTITY PER VARIATION 00
TOUTTOUT-00  TOUTOUT-00  NOTE ON TOUTOUT-00  TOUTOUT-0	1210520-01 1210820-03 9107736-00 9107796-33 1219296-02 9007031-00 9007031-00	SOCKET HOUSING CONN TERMINAL, LOOSE WIRE, STRND, 22AUG, XLPVC UL1430 ( WIRE, STRND, 22AUG, XLPVC UL1430 ( CONN .100 25KT STRAIGHT LABEL, POWER SUPPLY, 2-7 8" LG X GROMMET, RUBBER TIE, CABLE BUNDL.DIA C- 3/4"=101	

9 NOTE: 1. ITEM 3 REQUIRES A 13 INCH AND A 15 INCH LENGTH. 10 NOTE: 2. ITEM 4 REQUIRES A 13 INCH AND A 15 INCH LENGTH.

REVISION HISTORY  G! EOD NUMBER	-+++	SECTION	RT NO: 7018 A OF A		DRN:	P.	TOUSIGNANT	DH1E:	23-JUL-81	+++++ TITLE	+ + + + +	1+++! PA	RTS L	Leieee! IST	+++ İ	++
G ESO MUMBER - INITIAL			VARIATION	INDEX	CHK'D:	A.	ROCHA	DATE:	23-JUL-81	1	HARNE	SSS A	SSY			
		[8]	•		DES.ENG.:	R.	MORIN	DATE:	23-JUL-81	++++	++++	++++	+++++ MENT !	FFFFFFF WIMBED	++++	.++
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0	~	[F]	• :		ASSEMBLY NOT DELIANT	HHHH UMBE	++++++++++ R:	TOP D	OCUMENT NUM 7018081-0-0	BER:	1	FILE 2189	NAME 1A.PL	S	EDI	15
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AUTOMATED BY PRILST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	QUANTITY FER VARIATION CM	SHEET A1 OF A1
CLESS LONG HERITON OLD SERVICE	1218296-03 9009255-01 9107796-00 9107796-33 9107796-33 9107796-34 9107796-77 9007031-00 9007017-00	CONN 100 6SKT STRAIGHT LABEL, POWER SUPPL: 2-7/8" LG X WIRE STRND 22AWG XLPVC UL1430 ( TIE CABLE BUNDL DIA 0- 3/4"=101 GROMMET RUBBER WIRE, STRND 22AWG XLPVC UL1430 (	10 10 10 10 10 10 10 10 10 10 10 10 10 1	

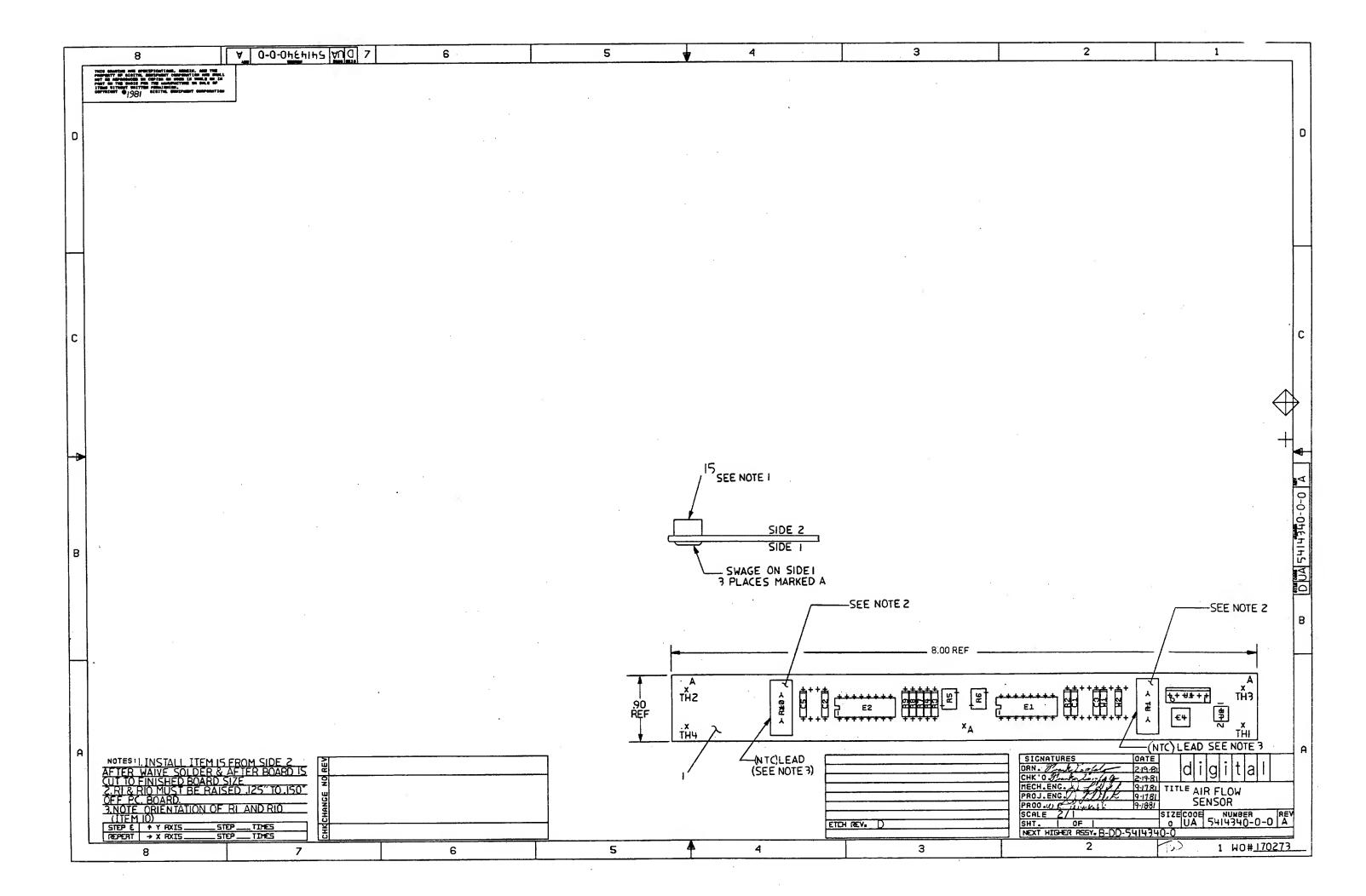
11 NOTE: ITEMS 3,4,5,6,7 AND 10 ARE IN INCHES LONG.

	REVISION HISTORY		BASIC PA	effetetetet RT NO: 7018 effetetetet	+++++ 3162 +++++	: DRN:	P.	TOUSIGNANT	DATE:	23-JUL-81		D	I (		T   	A L
1 1 1 1	NG! ECO NUMBER	خخخاا	SECTION I	A OF A +++++++ VARIATION	INDEX	CHK'D:	A.	ROCHA	DATE:	23-JUL-81	TITLE		PAR OWER C	5 L151		
1		1	[B] OM			DES.ENG.:	R.	MORIN	DATE:	23-JUL-81	++++	·++++	eeeeee	NT NUME		
	* -		[C]			RESP.ENG.:	R. +++	MORIN	DATE:	23-JUL-81	SIZE	CODE	+++++	-+++++	BEN F <del>fff</del> I	REV
			[E]			1++++++++	+++	CASTIGLIONE	• ++++	53-JUL-81	++++	++++!	+++++	12-0-DBF		A EDIT #
			[F]	<del></del>	+++++	ASSEMBLY N D-IA-70181	62- +++	0-0 ++++++++++	!E-AD- !++++	7018081-0-9 ++++++++		-++++ i	FILE   21852	+++++++ >c	++++ 10000	13
1	"THIS DRAWING AND SPECIFICATIONS HEREIN. ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  COPYRIGHT (C) 1981. DIGITAL EQUIPMENT CORPORATION "															

SIZE CODE POHOSER NUMBER DRAWING NO. PART NO. DESCRIPTION **REVISIONS** B-DD-5414340 - 0 AIR FLOW SENSOR Α D-UA-54H34O-O-O AIR FLOW SENSOR D-MD-5014339-0-0 3 DRILL AND ETCH DRAWING D-EC-5014339-0-0 ETCH CUT DRAWING D CS 54H340-0-1 AIR FLOW SENSOR Α K-PL-5414340-0-DBP AIR FLOW SENSOR A. 5014339 ETCHED BOARD n K-PG5414340-0-DBC PC DESIGN DATA BASE ח A-SP-3700646-0-0 6 3700646-01 PKG MODULE (5413340) 54PACK Α A-SP-5414340-0-2 17 AIR FLOW SENSOR SPEC Α NOTES: REVISIONS CHG NO. REV. DATE CHK'D FIGURE 2-10-8/ AIR FLOW SENSOR

ENG. | SIZE CODE NUMBER

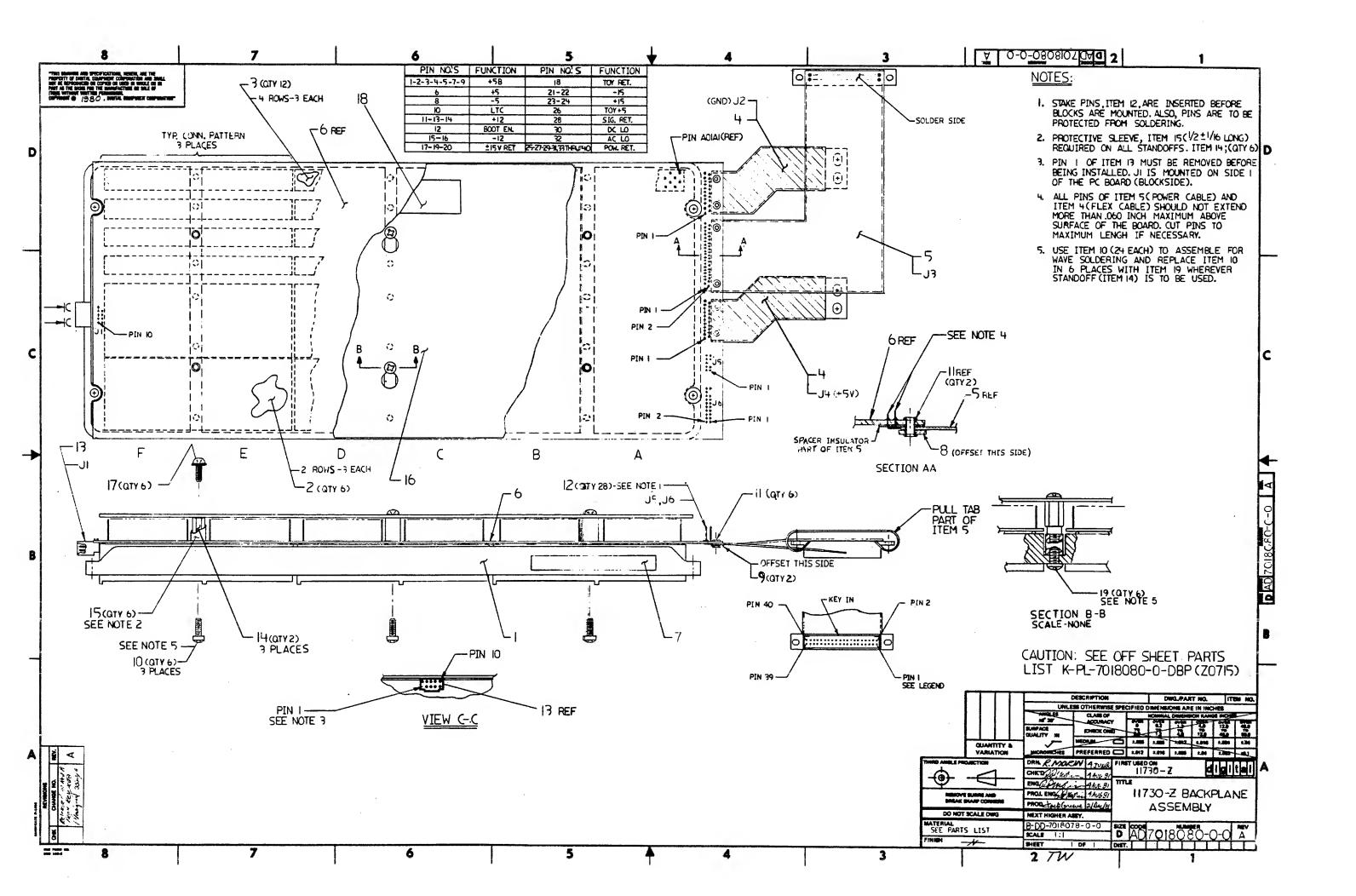
PROD J. J. J. J. J. SHEET | OF | USED ON OPTION/MODEL BALLZ "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. REV. COPYRIGHT 1781 DISITAL EQUIPMENT CORPORATION



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**B DD** 1018080-0-0 B. DRAWING NO. OF PART NO. **DESCRIPTION REVISIONS** A-WT-7018080-0-2 AWT REVISION STATUS AA DESIGN DATA BASE TAPE K-WL-7018080-0-DBW AA WIRELIST (730Z) K-WL-7018080-0-1 AA 5014598-00 ETCH BOARD CD 11730-Z BACKPLANE ASSY AA K-PL-7018080-0-DBP 11730 Z BACKPLANE ASSY AA D-AD-7018080-0-0 AB B-DD-5414599-0-0 730Z BACKPLANE MODULE **NOTES:**  $\mathbf{a}$ REVISIONS DATE CHG NO. TWOOI 8-82 272/1/8/ TITLE USED ON OPTION/MODEL "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 11730 BACKPLANE 2 DEC 81 NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN SIZE CODE 7018080 -0 -0 PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF REV. ITEMS WITHOUT WRITTEN PERMISSION. tack Orieve 2 Dec 81 SHEET | OF 1 DIGITAL EQUIPMENT CORPORATION COPYRIGHT®

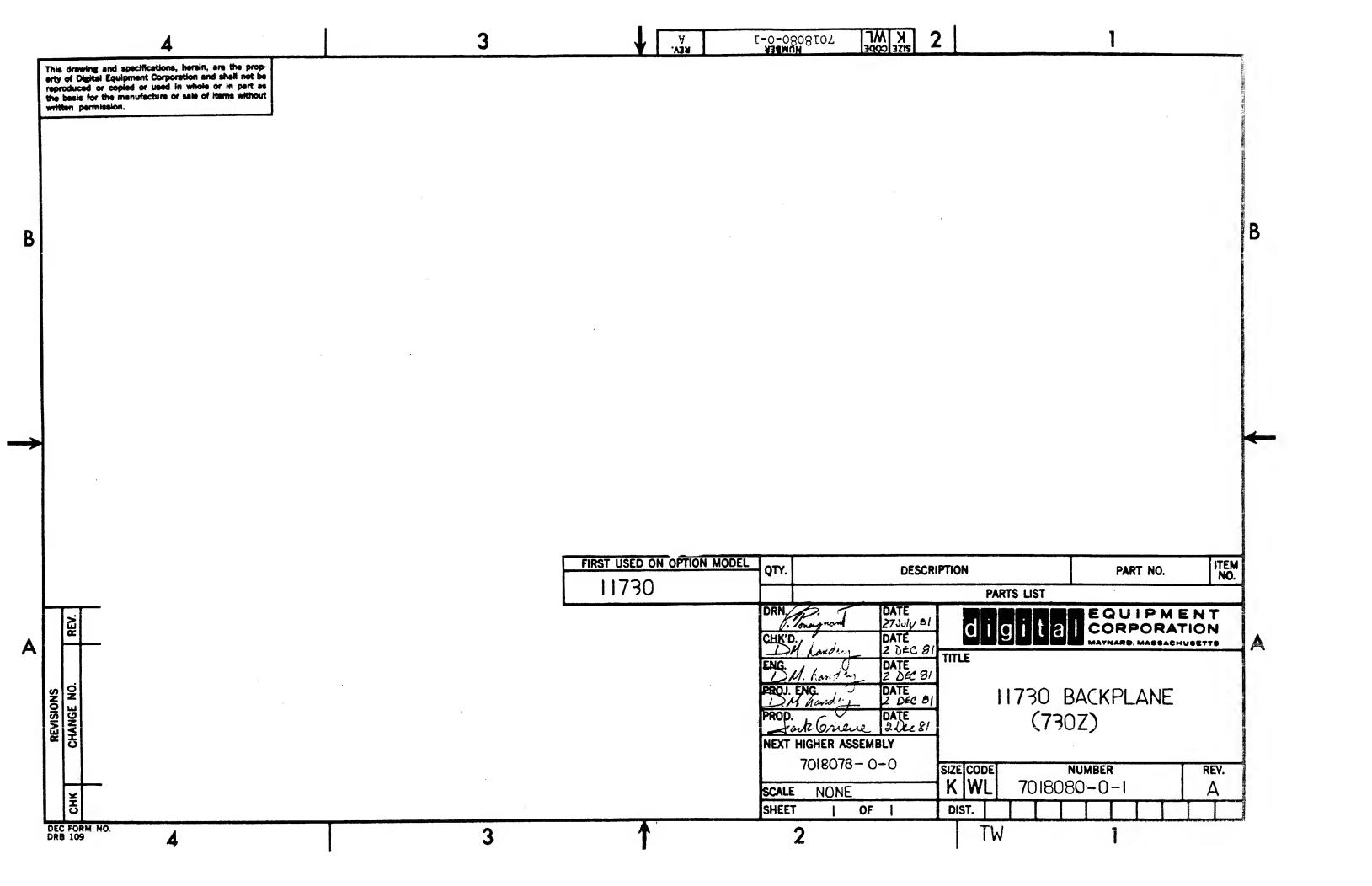
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AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	QUANTITY PER VARIATION OO	SHEET A1 OF A1
1 2345 5 67 8 9 10 11 12 13 14 15 16 16 17 18 19 20 223 24 24 27 29 20 223 24 20 223 24 20 223 24 20 223 24 20 223 24 20 223 24 20 223 24 20 223 24 20 223 24 20 223 24 20 223 24 20 223 24 20 20 20 20 20 20 20 20 20 20 20 20 20	1217096-02 1210258-01 1211425-00 1700238-00 1700238-00 7414598-00 7414979-01 7424779-01 9006120-06 9009149-00 1218414-01 7425372-00 9107252-09 7425344-00 91072545-01 3618538-01 9007641-06 91075740-44	FRAME.LOGIC.12 SLOT CONN, CARD 288PIN SLOTTED OPEN EN CONN, CARD 72PIN SLOTTED DOUBLE CIRCUIT, FLEXIBLE POWER CABLE CIRCUIT, FLEXIBLE, SIGNAL DRILL AND ETCH 8D. DECAL STRAIN RELIEF SCREW. POZIDRIVE FILLISTER HD SW EYELET ROLL FLANGE .1210DX .192 PIN, STAKING. P.C. 80ARD025 X HEADER.100 10PIN RT ANGLE SPACER TUBING, SHRINK 3/8 DIA.EXP UL COVER, PROTECTIVE SCREW, PAN, PHIL, SEMS 8-32X .50 L LABEL, CAUTION SCREW, PHILLIPS FILLISTER HEAD 8 WIRE(WRAP) 30AWG UL1423 WIRELIST (730Z) AWT REVISION STATUS DATA 8ASE TAPE CARTON, DIE CUT W/FOAM, 8	28	

25 NOTE: ITEM 15 IS IN INCHES.	-+++++++++++++++++++++++++++++++++	-++++++++++++++++++++	.++++++++++++++++++											
REVISION HISTORY BASIC PART	++++++++++++!DRN: R.J. RILEY	DATE: 26-AUG-81 D	I G I T A L											
1	++++++++++	TITLE DATE: 26-AUG-81	PARTS LIST											
INITIAL A SECTION. VA		11730-Z B	BACKPLANE ASSEMBLY											
[8]	DES.ENG.: R. MORIN	DATE: 26-AUG-81												
[C]	RESP.ENG.: R. MORIN	DATE: 26-AUG-81 +++++++++	DOCUMENT NUMBER NUMBER REV											
[D]	i	DATE: 26-AUG-81 K PL	!!!											
[F]	ASSEMBLY NUMBER:	<u> </u> +++++++++++++++ <u>+</u> ++++ <u>!</u> ++++ <u>!</u> +	FILE NAME: EDIT #!											
	D-AD-7018080-0-0	E-AD-7018078-0-0	.++++++++++++++											
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H7202 POWER SUPPLY B-TC-H7202-0-1 B-DD-H7202-0 H7202 POWER SUPPLY E-UA-H7202 - 0-0 H7202 POWER SUPPLY K-PL-H7202 - 0-DBP H7202 POWER SUPPLY PARTS LIST D-IC-H7202 - 0- 2 H7202B INTERCONNECT D-UA-H7200-0-0 5V POWER MODULE K-PL-H7200-0-DBP 5V POWER MODULE B-UA-H7211-0-0 COMMUNICATIONS POWER MODULE K-PL-H7211-0-DBP COMMUNICATIONS POWER MODULE B-UA-H7213-0-0 MEMORY POWER MODULE MEMORY POWER MODULE K-PL-H7213-0-DBP E-AD-7017635-0-0 H7202 BOX ASSY K-PL-7017635-0-DBP H7202 BOX ASSY MAJOR BOARD (+5V60A) D-UA-5413857-0-0 K-PL-5413857-0-DBP MAJOR BOARD (+5V6OA) D-CS-5413857-0-1 MAJOR BOARD (+5V60A) MEMORY REG BOARD (+5V) E-UA-5413869-0-0 MEMORY REG BOARD (+5V) K-PL-5413869-0-DBP D-CS-5413869-0-1 MEMORY REG BOARD (+5V) COM REG BOARD (+15V) E-UA-5413867-0-0 COM REG BOARD (+15V) K-PL-5413867-0-DBP COM REG BOARD (+15V) D-CS-5413867-0-1 DISTRIBUTION BOARD D-UA-5413877-0-0 K-PL-5413877-0-DBP DISTRIBUTION BOARD D-CS-5413877-0-1 DISTRIBUTION BOARD A-SP-H7202- B-O H7202B P.S. ENG. SPEC A-SP-3700635-0-0 PKG. P.S. H7202/H7200

**UNIT VARIATIONS COVERED BY THIS PRINT SET** H7202B

SHEET I OF 1

**Field Maintenance** Print Set No. MPO1257

**Digital Equipment** Corporation

REV B DRN. DATE USED ON OPTION/MODEL 12/20/81 H7202-TWI VAX11/730 TITLE: CHK'D CHG. NO. DATE REVISIONS H7202 POWER SUPPLY PROJ. ENG. DATE 2/20/8 SIZE CODE NUMBER REV. DATE -82 TC B B FIELD SERV. DATE H7202 - 0 - 1W macy 10/9/8 DIST.

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H7202-0

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DIGITAL EQUIPMENT CORPORATION.

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**************************************	CHK'D.	/ <u>:</u>	DATE 2/2081						
	PROJ. ENG.	· _	DATE	SIZE	CODE	NUMBE	R		REV
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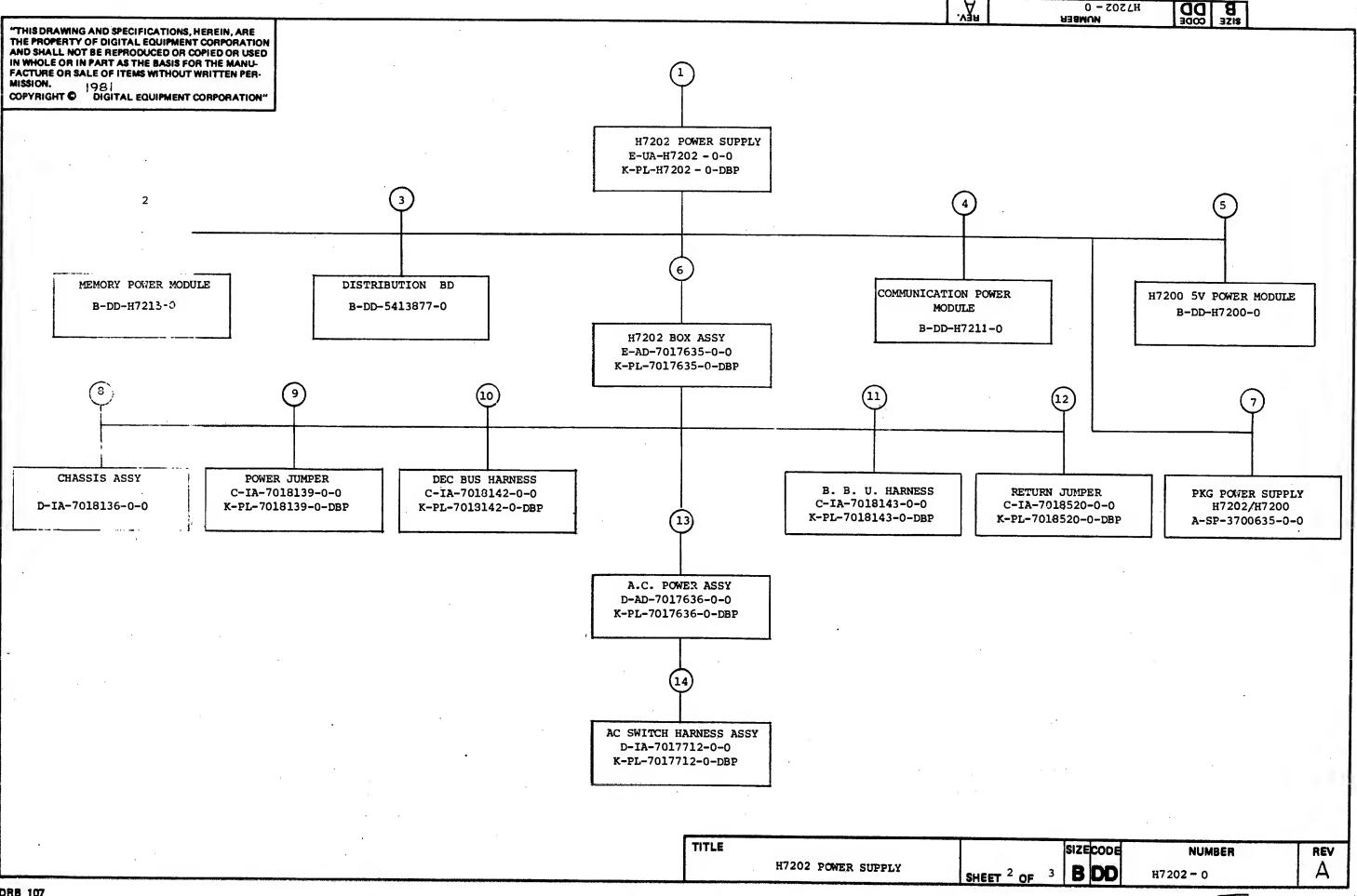
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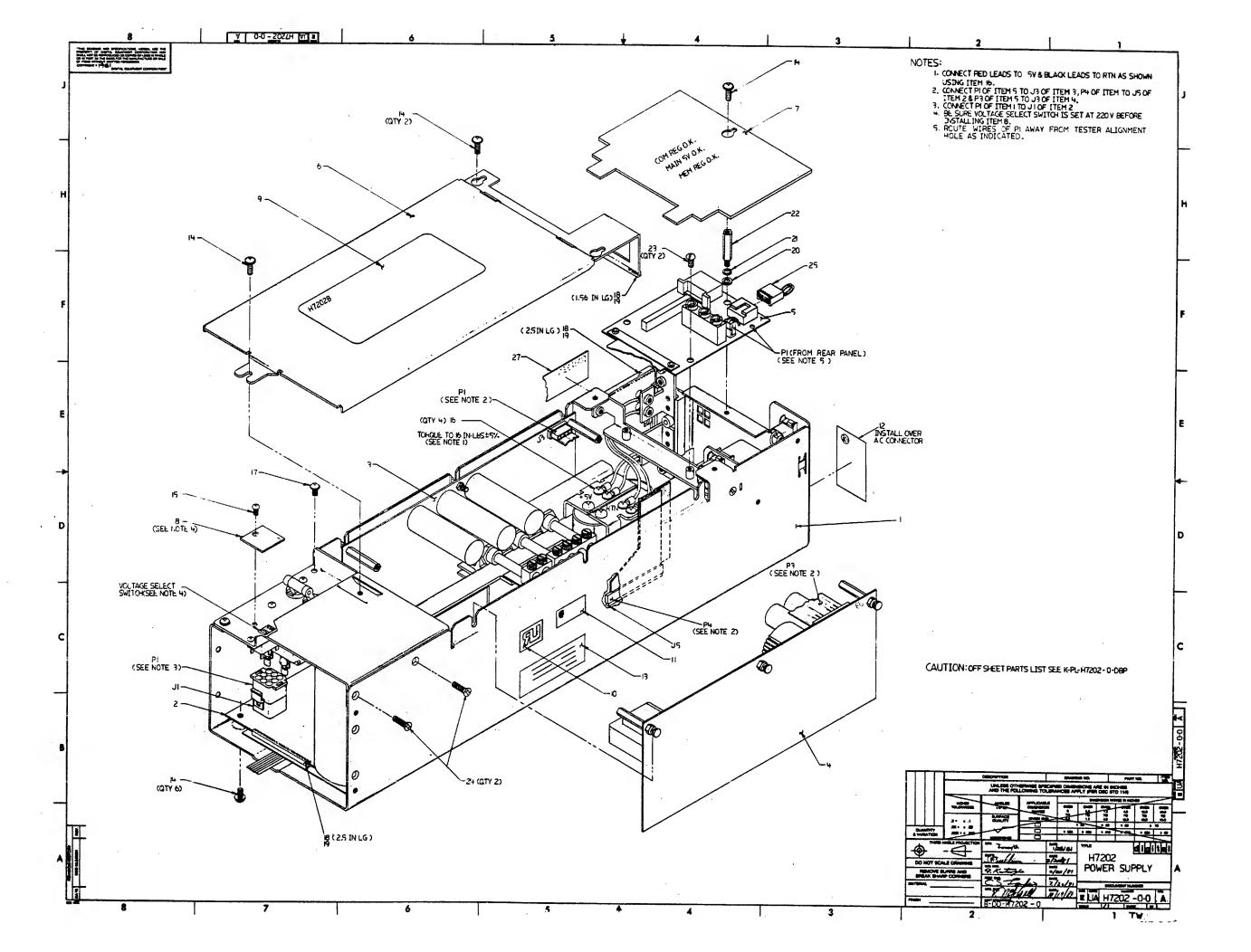
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CHANGE NO. REVISIONS

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1	MP02157	FIELD MAINTENANCE PRINT SET (MP)	<b>-</b>	8	D-TU-LATOLOGI-A-A	CHASSIS ASSY	М
	B-TC-H7202 - 0-1	FIELD MAINTENANCE PRINTSET (TC)	<u> </u>	<b> </b>	F-MD-7424252-0-0	CHASSIS, LEM	M
	E-UA-H7202 - 0-0	H7202 POWER SUPPLY	E/M	<b> </b>	D-MD-7424253-0-0	PLATE, END	
_	K-PL-H7202 - 0-DBP	H7202 POWER SUPPLY PARTS LIST	E/M	<b>∤</b>			
	D-MD-7424254-0-0	COVER TOP	M	<b> </b>			
	D-IA-7424260-0-0	PANEL, ACCESS	M	╢			
	B-MD-7425394-0-0	COVER, SWITCH	M	_9	1011110000	JUMPER, POWER	
	A-DC-3618426-0-0	LABEL, P.S. H7202	M	<b>∤</b>	K-PL-7018139-0-DBP	JUMPER, POWER PARTS LIST	-
	A-DC-3612063-0-0	LABEL ADHESIVE	М	<b>∤</b> }—			-
	A-DC-3613211-0-0	DECAL CSA	M	<b>∤├</b> ─			-
	A-DC-3618427-0-0	LABEL, CAUTION	M	┨├─			-+
	A-DC-3615087-02	LABEL, "DANGER-HIGH CURRENT"	M	╢╴	LO C-IA-7018142-0-0 '	DEC DUC HADNECC	
_	-		-	┪ <del>├╌</del>	C-IA-7018142-0-0 ' K-PL-7018142-0-0BP	DEC BUS HARNESS	
			-	╢	K-7 L-7018142-00BF	DEC RUS HARNESS	
	B-DD-H7213-0	MEMORY POWER MODULE	F/M				
				1.1	C-IA-7018143-0-0	HARNESS, BBU	
					K-PL-7018143-0-DBP	HARNESS, BRU PARTS LIST	#
3	B-DD-5413877-0	DISTRIBUTION BOARD	E/M				
	8-DD-H7211-0	COMMUNICATION POWER MODULE	E/M		C-IA-7018520-0-0 K-PL-7018520-0-DBP	JUMPER, RETURN JUMPER, RETURN PARTS LIST	E
4	8-00-47211-0	TOPETONI CALL COMM.			·		
5	B-DD-H7200-0	H7200 5V POWER MODULE	E/M		D-AD-7017636-0-0	AC POWER ASSY	
٠,	H-DD-H/200-0		- 1-1	ال	K-PL-7017636-0-DBP	AC POWER ASSY PARTS LIST	
					D-MD-7424258-0-0	BRACKET, C.B. MTG	
6	E-AD-7017635-0-0	H7202 BOX ASSY	E/M E/M	上			$\dashv$
	K-PL-7017635-0-DBP	H7202 BOX ASSY PARTS LIST			14 2 14 7017710 0 0	HADNECC ACCV AC CULTCU	-+
	B-1A-7424257-0-0	BRACKET POWER CONN	M	┥┝╌	L4 D-IA-7017712-0-0 K-PL-7017712-0-DBP	HARNESS ASSY, AC SWITCH HARNESS ASSY, AC SWITCH PARTS LIST	
	D-MD-7425398-0-0	INSULATOR, POWER CONN	M	┨├─	V-LF-1011/17-0-DBL	HARRESS ASSI, AC SHITCH FARTS LIST	
	D-MD-7424259-0-0	CONNECTOR MTG. BRACKET	M	┨├─			
	C-MD-7425494-0-0	INSULATOR, P.C. BOARD	M	$\dashv \vdash$		× -	$\neg \uparrow$
	C-MD-7425401-0-0	INSULATOR, SHIELD	1"-	$\dagger \vdash$			
7	A-SP-3700635-0-0	PKG POWER SUPPLY H7202/H7200	М				
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TYF	PE: E ELECTRICAL M MECHANICAL	digi	l a l	TIT	TLE H7202 POWER SUPPLY	SHEET 3 OF 3 B DD H7202 - 0	RE



AUTOMATED BY PRILST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	QUANTITY PER VARIATION B
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ENG ECO NUMBER REV SEC IA  INITIAL A SEC ID  ID  IE  IF	]  ]  [  [  ]	DES.ENG.: A.KANTARGIS  RESP.ENG.: C.LANDINO  MFG.ENG.: V.MITCHELL  ASSEMBLY NUMBER: E-UA-H7202-0-0  THE PROPERTY OF DIGITAL FOULPM	E: 19-FEB-81 H7202 PCNER SUPPLY  E: 19-FEB-81 E: 19-FEB-81 FIGURE SUPPLY  DOCUMENT NUMBER E: 19-FEB-81 FILE NAME: D-H7202-0-0 FILE NAME: FILE N

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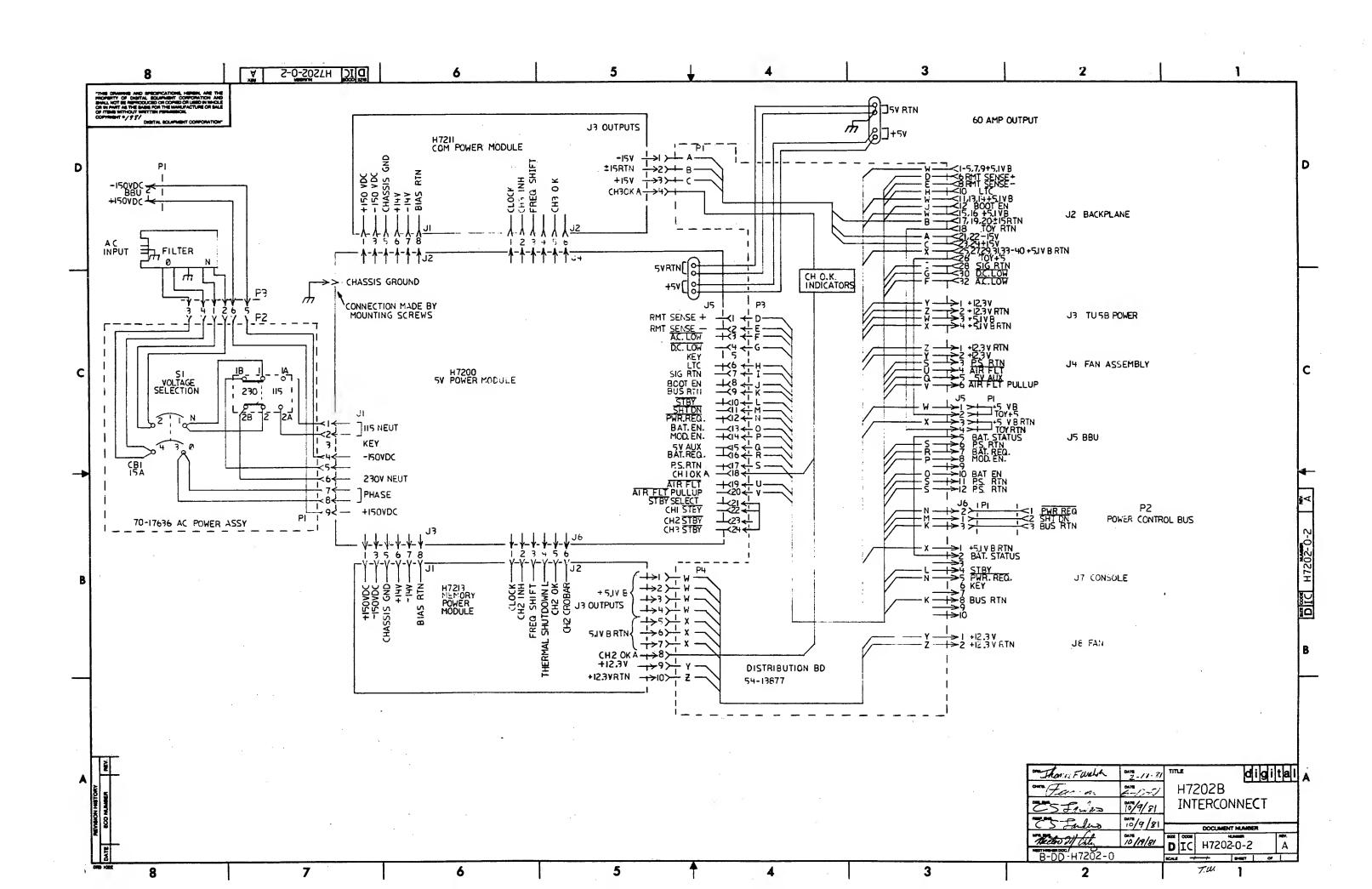
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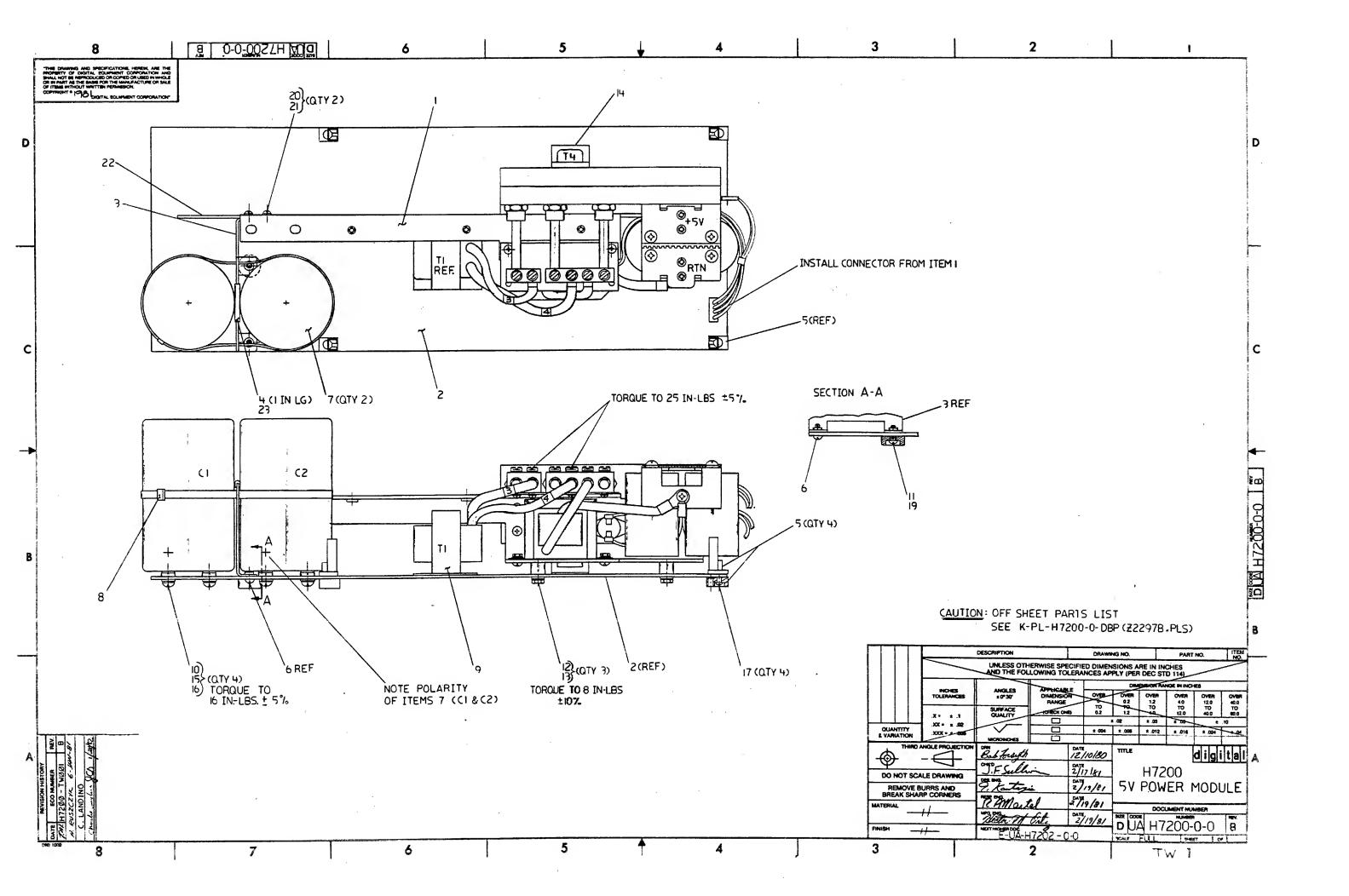
PART NUMBER DESCRIPTION

28 NOTE: ITEM 18 IS IN INCHES. 29 NOTE: ITEM 26 IS BULK PKG FOR (48) UNIT. FOR INDIVIDUAL PKG USE 3700635-01 QTY 1.

D	I	G	I	T	A	L	TITLE	H7202	POWER SUPPLY		SECTION A	OF A
44	+++	+++	+++	+++	+++	+++	!++++++	+++++	+++++++++++	++++++++++	++++++++	+++++++

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AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	QUANTITY FER VARIATION OO	SHEET A1 OF A2
1	7017638-00 5413857-00 5413857-00 7424279-00 7425495-00 7425495-00 1018989-00 1018989-00 1617441-00 9000035-00 1617638-00 9008185-00 9008980-05 3700635-03 9009889-00 9008659-00 9008212-00 7426130-00 9009157-00	OUTPUT ASSY. H7200 MAJOR BD BRACKET, TAF, SUPPORT GROMMET, STRIP X 650 CARD GUIDE SCREW TRUSS PHIL 6-32X 5/16 3300 MFD 200V +50-10% AL EL TIE, CABLE BUNDL.DIA -4"TYPE=10! XFMR P=370V S=28,60.85V SCREW.PAN, PHIL 10-32X 3/8 BR/1 BUMPER WASHER, FLAT, .312 0.D. X .155 1 NUT.KEP 6-32X 1/4 AF XFMR, FLYBACK BIAS, HIGH FREQUENCY WASHER, FLAT, BR/TIN .203IDX .4380 SCREW.PAN, PHILLIPS 4X .38 PKG. POWER SUPPLY H7202/H7200 SCREW.PAN PHILLIPS 4X .38 PKG. POWER SUPPLY H7202/H7200 SCREW.PAN PHILLIPS 4X .3/8 WASHER, FLAT, .375 C.D. X .156 1 SCREW. NYLON, SLTD PAN HD, 6-32 BARRIER, B.S. ADH, LIQ.RM. TEMP CURING COLORLESS	L 2 1 1 1 1 1 3 1 3 1 4 0 4	

24 NOTE: ITEM 18 IS A CUSTOMER/FIELD SERVICE PKG AND THE QTY IS DETERMIND BY MFG-25 NOTE: FOR BULK PKG (88) UNITS USE 3700635-04, QTY 1.

25	MUIE: FUR BULK	TNG	(88) ONI(3 OSE			.++++++++++++++	+++++++++++++++++	++++++++	++++++++++++++++	+++++++
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!	INITIAL TWOO1	Α.	SECTION. VARI	ATION INDEX	CHK'D: 	J.SULLIVAN	DATE: O6-JAN-81	H7200 5V	POWER MODULE	
CL	H?2ŎŌ-TWOO1	8	[8]		DES.ENG.:	A.KANTARGIS	DATE: 06-JAN-81			.++++++
1			[0]	•			1	i	DOCUMENT NUMBER	
	*		[0]		RESP.ENG.:	D.MARTEL	DUIF: 12-68-81	SIZE CODE	NUMBER	REV
			(E)				DATE: 19-FEB-81	K PL	H7200-0-DBP	В
			[F]		ASSEMBLY N	UMBER: -0-0	TOP DOCUMENT NUM B-DD-H7202-0-0	BER:	FILE NAME: Z2297B.PLS	EDIT #
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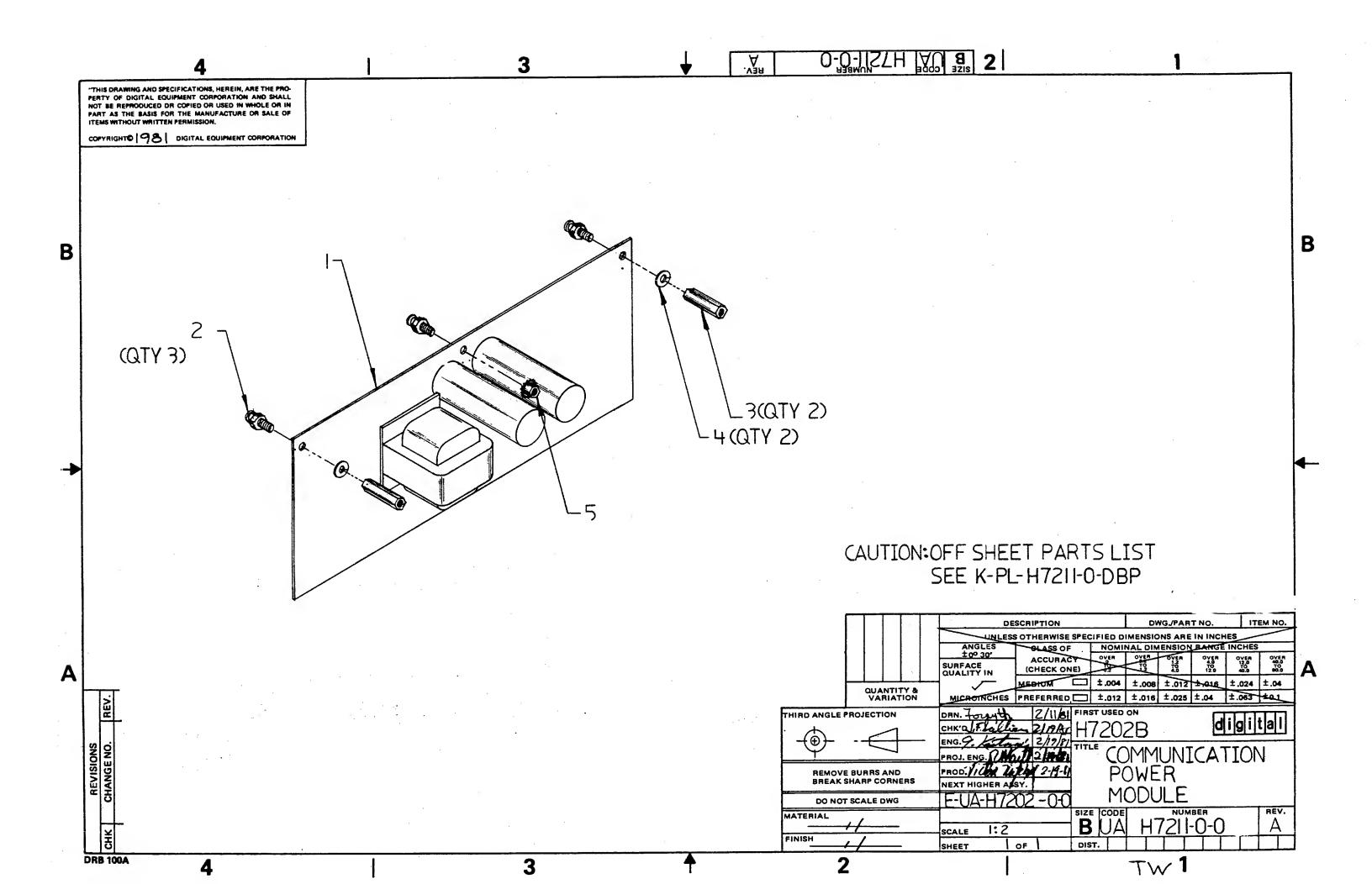
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QUANTITY PER VARIATION

26 NOTE: ITEM 4 IS IN INCHES.

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LINE ITEM DOCUMENT NUMBER PART NUMBER DESCRIPTION

1 1 D-UA-5413867-0-0 5413867-00 H7211 COMMUNICATION REG 2 8 B-MD-7425185-00 7425185-00 SPACER, PCB 5PACER, HEX, ALUM, .138 ID X 1.0 9007801-00 WASHER, LOCK, 5.5. \*6 9007801-00 WASHER, LOCK, 5.5. \*6 9009243-00 NUT, KEP 6-32 X5/16AF 1 A/R

7 NOTE: ITEM 6 IS A CUSTOMER/FIELD SERVICE PKG AND THE QTY IS DETERMINED BY MFG.

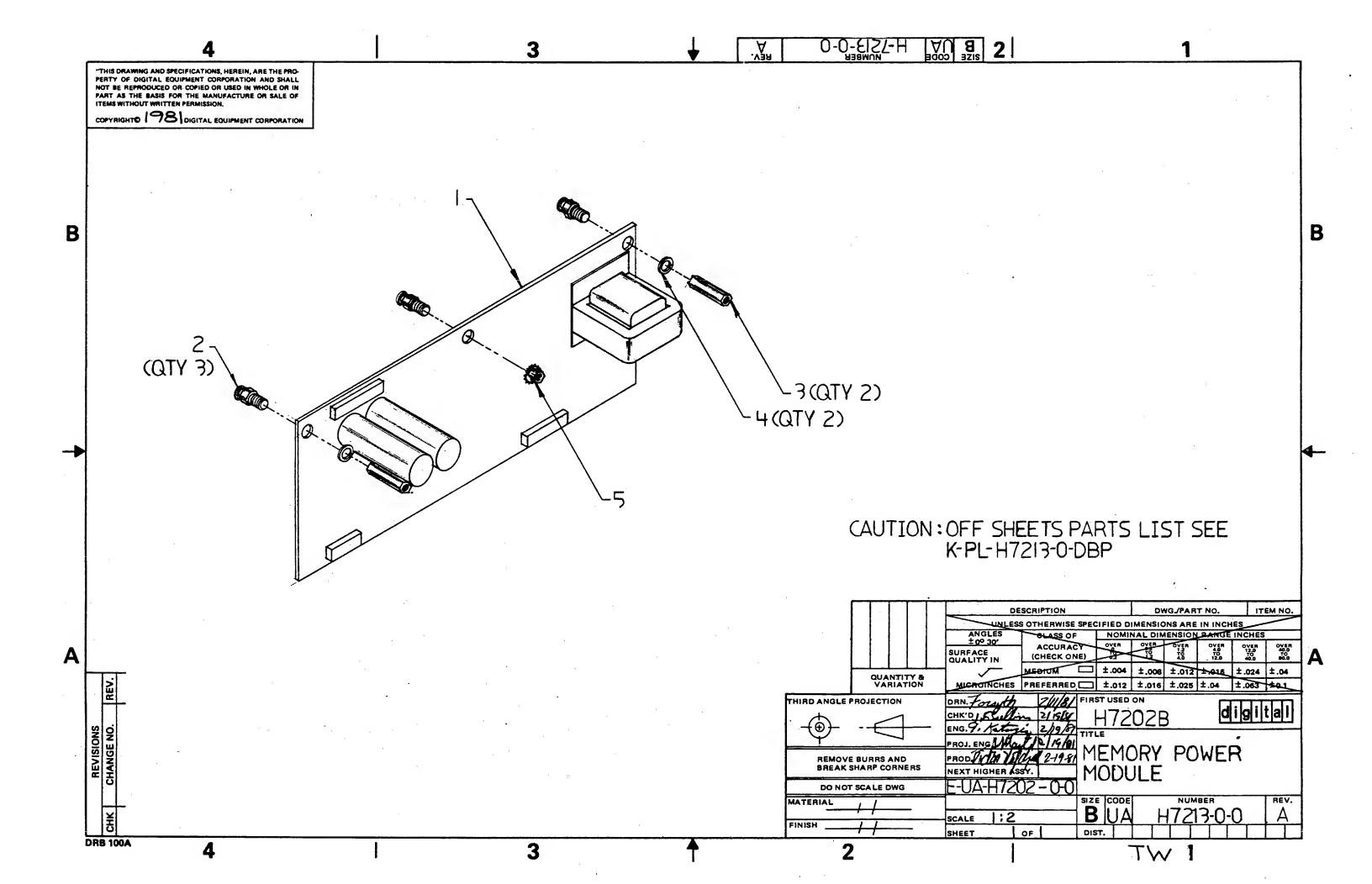
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!BASIC PART NO: H7211 !\_ REVISION HISTORY ! D! I! G! I! T! A! L !++++++++1]++++++++!DRN: T.MCCULLOUGH -------ENG! ECO NUMBER ! REV ! SECTION A OF A !TITLE PARTS LIST .]++++++++++++++++++++ !DATE: 19-FEB-81 ! SECTIO . hVa (YATION INDEX! CHK'D: J.SULLIVAN !---! INITIAL [A] 00 !DES.ENG.: A.KANTARGIS !DATE: 19-FEB-81 ! [8] !++++++++++++ 1 -------DOCUMENT NUMBER RESP.ENG.: R.MARTEL !++++++++++++!SIZE!CODE! NUMBER •++++++++++++++++++ ! REV DATE: 19-FE8-81 K PL H7211-0-DBP A !MFG.ENG.: V.MITCHELL [E] ASSEMBLY NUMBER: TOP DOCUMENT NUMBER: FILE NAME: ZZZ83.PLS !EDIT #! "THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

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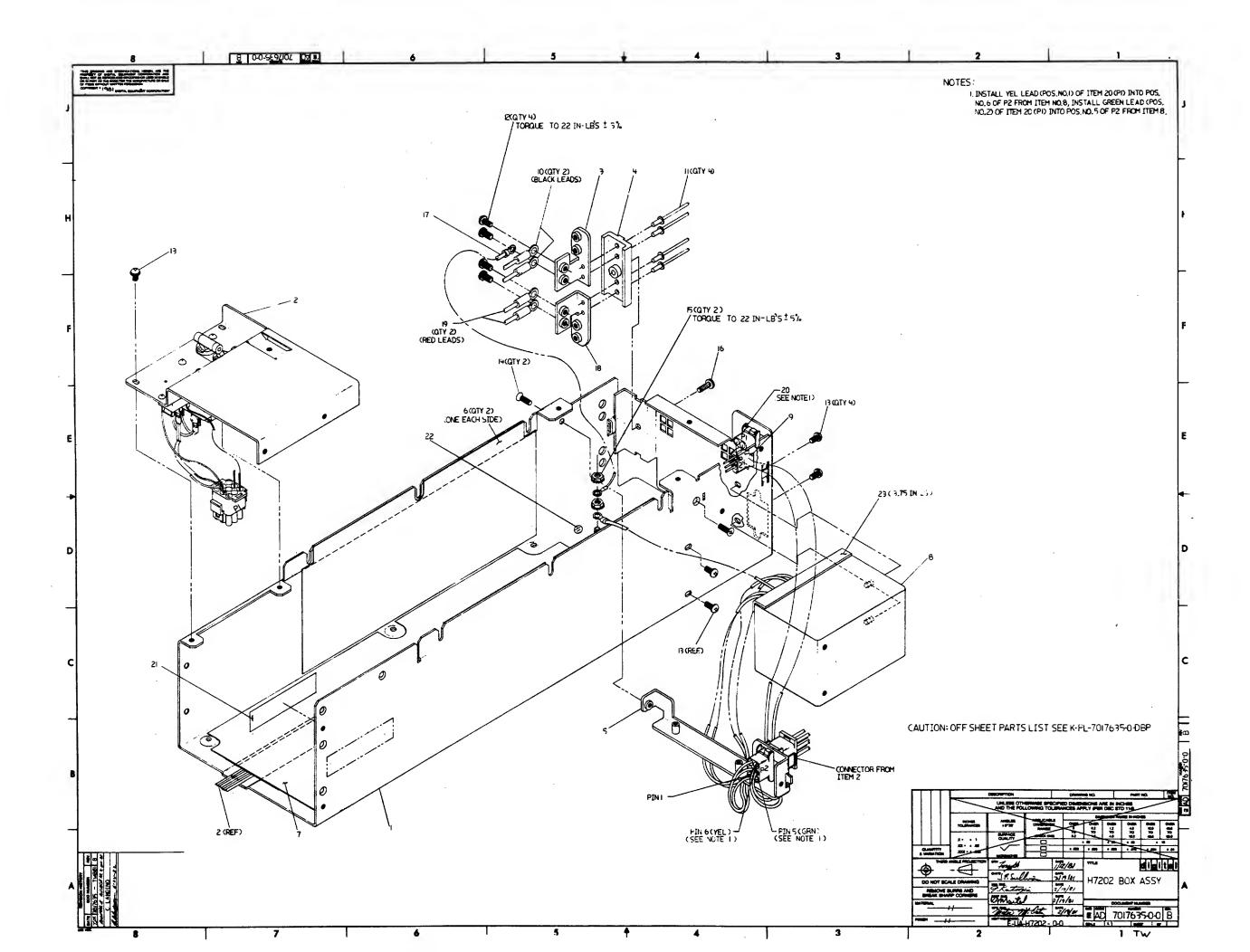


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1687	1233	D-UA-5413869-0-0 B-MD-7425185-0-0	5413869-00 7425185-00 9006809-00 9007801-00	H7213 MEMOPY REG SPACER, PCB SPACER, HEX, ALUM, .138 ID X 1.0 WASHER, LOCK, S.S. #6	1300	
5	5	A-SP-3700635-0-0	9009243-00 3700635-05	WASHER, LOCK, S.S. #6 NUT,KEP 6-32 X5/16AF PKG. POWER SUPPLY H7202/H7200	A/R	

SHEET A1 OF A1

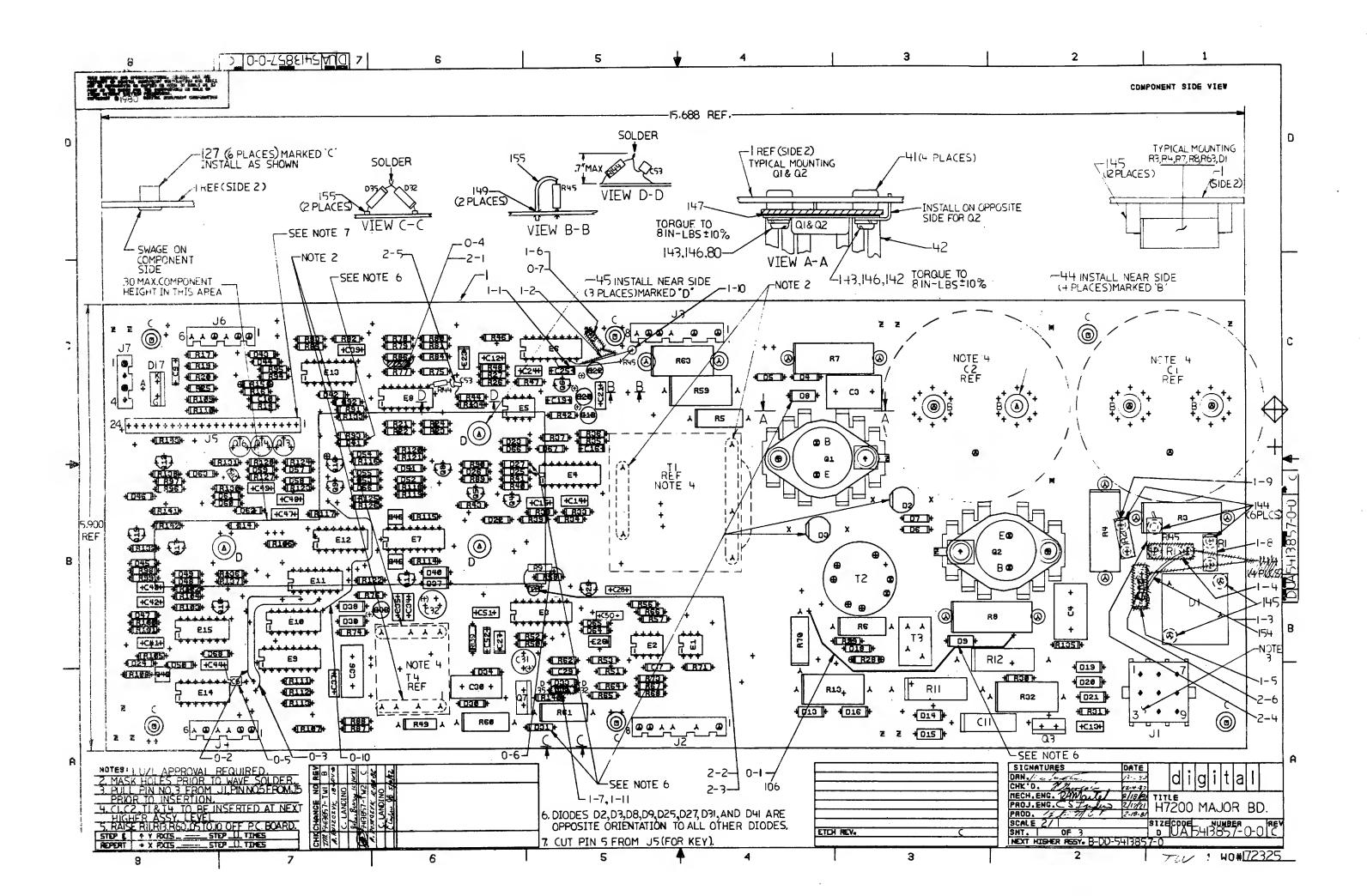
7 NOTE: ITEM & IS A CUTOMER/FIELD SERVICE PKG AND THE QTY IS DETERMINED BY MFG.

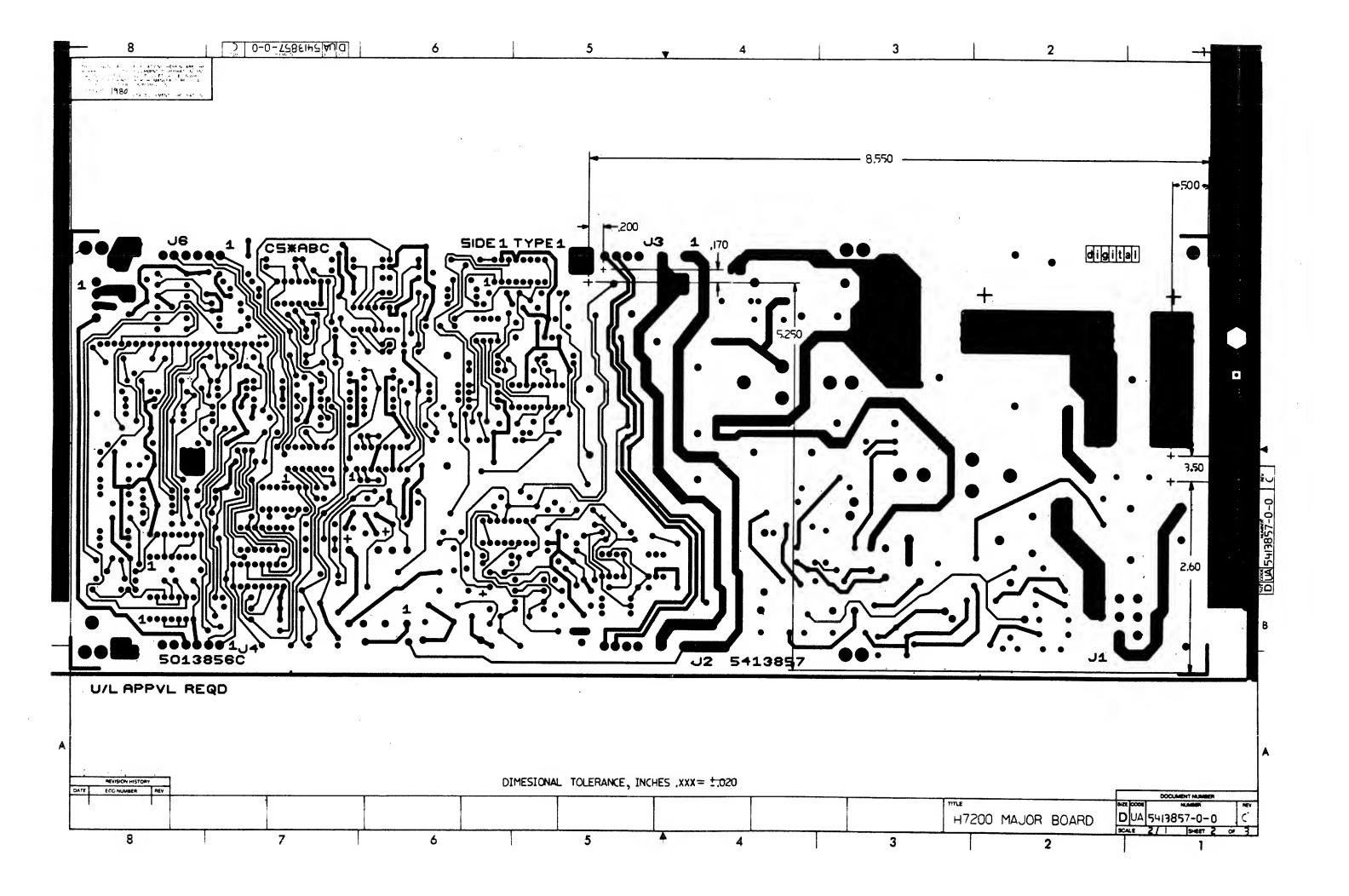
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		-	[F] :	• •		ASSEMBLY N B-UA-H7213	UMBER: -0-0	!TOP DO !B-UA-H	CUMENT NUMI 17213-0-0	BER:	į	FILE Z22Ba	NAME: PLS		EDIT #
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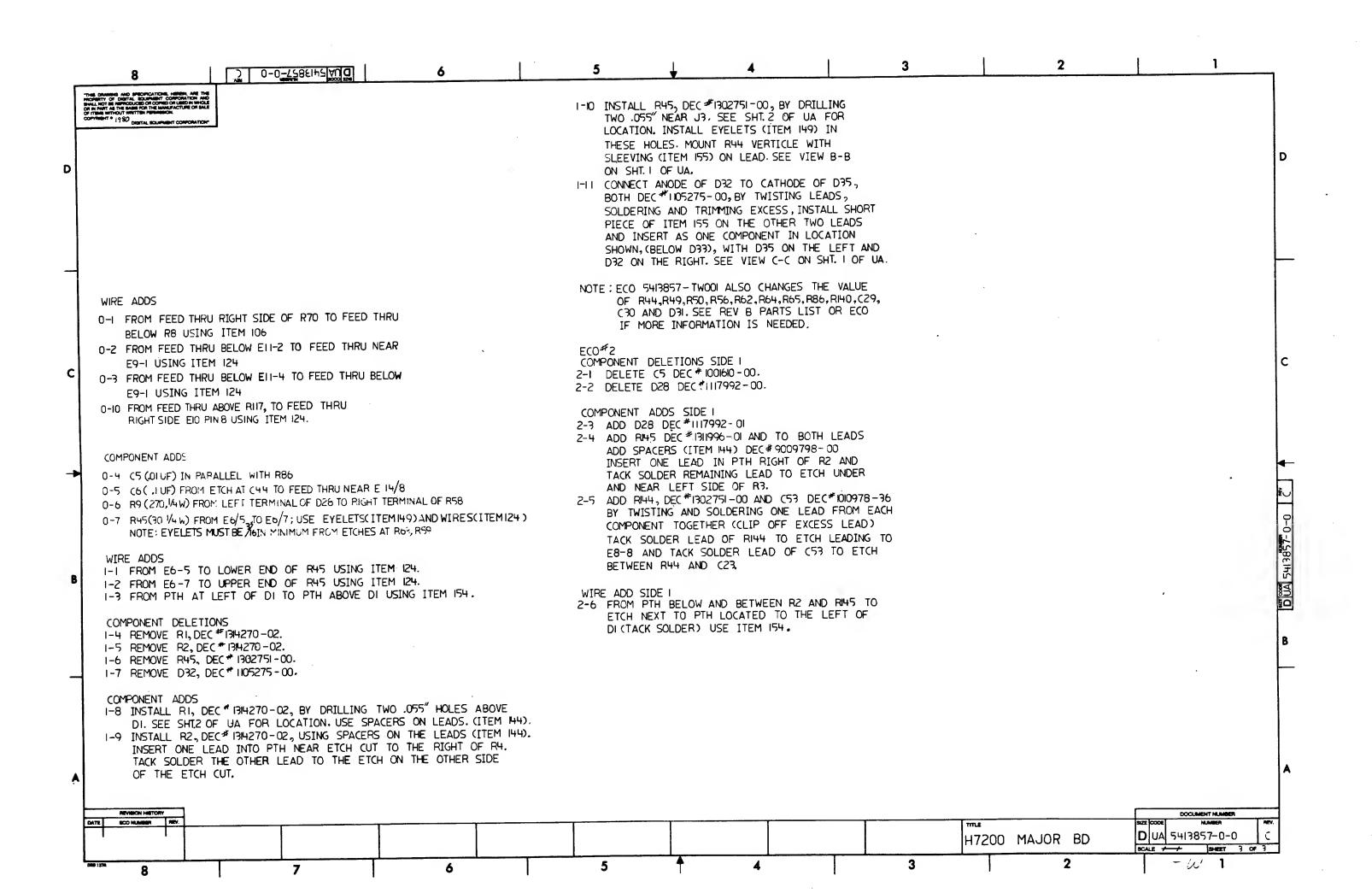


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. ا سحم		! .!		IE-AD-70176		B-DD-H7202-0-0		1	Z2285.PI	LS	. 1	1T *
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AUTOMATED BY FRTLST.3F(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER I	PARTS LIST DESCRIPTION	SHEET AL OF A4 OTY PER VARIATION DO REFERENCE DESIGNATOR
1 D-MD-5013856-0-0 2345 5 57 8 8	1010978-24 1001765-00 1018000-00 1010274-00	DRILL + ETCH BRD  55.0 MMF 100V 5%200PPM MICA 100.0 MMF 50V 5% CER .01 MFD 50V 10% CER .005 MFD 100V 20% Z5T DISC .2.2 MFD 63V +50-10 AL EL .22 MFD 50V +80-20% Z5U CER .1 MFD 50V 10% CER	1 1 25,044,047 1 046 046 046 046 046 046 046 046
9 10 11 11 11 11 11 11 11 11 11 11 11 11	1011847-01 1011847-03 1012784-00 1010274-02 1015755-00 1000009-00 1014169-00 1018000-01 1018001-00 1000023-00 1018001-01 1018929-00 1012312-00 1117992-00 1117992-00 1112594-02	.1 MFD 50V 10% POLYPROP .01 MFD 400V 10% POLYPROP .0047 MFD 50V +80-20% CER .047 MFD 50V +80-20% CER .047 MFD 270V 20% POLYPROP .048 MFD 270V 20% POLYPROP .049 MFD 270V 10% CER .040 MMF 100V 1%200PPM MICA .050 MMF 100V 1%200PPM MICA .050 MMF 250V 10% CER .050 MMF 250V 10% AL EL .050 MMF 250V 20% Y5S DISC .050 MFD 20% CER .050 MFD 20% CER .050 MFD 20% CER .050 MFD 20% SI AIISM PIV=60V SI .050 MFD 20% SI AIISM PIV=60V SI .050 MFD 20% SI AIISM PIV=600 I= 3A	12
ENG ECO NUMBER REV SE	CTION A OF A CTION.VARIATION INDEX [A] OO [B] [C] [C] [C] [C] [C] [C] [C] [C] [C] [C	CHK'D: K. SHEYTANIAN DATE DES.ENG: C. LANDINO DATE RESP.ENG.: C. LANDINO DATE MFG.ENG.: H. ORTIZ DATE ASSEMBLY NUMBER: TOP D-UA-5413857-0-0 B-DE	E: 16-NOV-B1 E: 16-NOV-B1 H7200 MAJOR BOARD  DOCUMENT NUMBER E: 16-NOV-B1 E: 16-NOV-B1 E: 16-NOV-B1 FFILE NAME: DOCUMENT NUMBER: FILE NAME: DOCUMENT NUMBER: DO
"THIS DRAWING AND SPECTOR COPIED OR USED IN	IFICATIONS HEREIN, HE WHOLE OR IN PART AS T CORVETCH	IT (C) 1981 DIGITAL EQUIPMENT COR	ENT CORPORATION AND SHALL NOT BE REPRODUCED SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

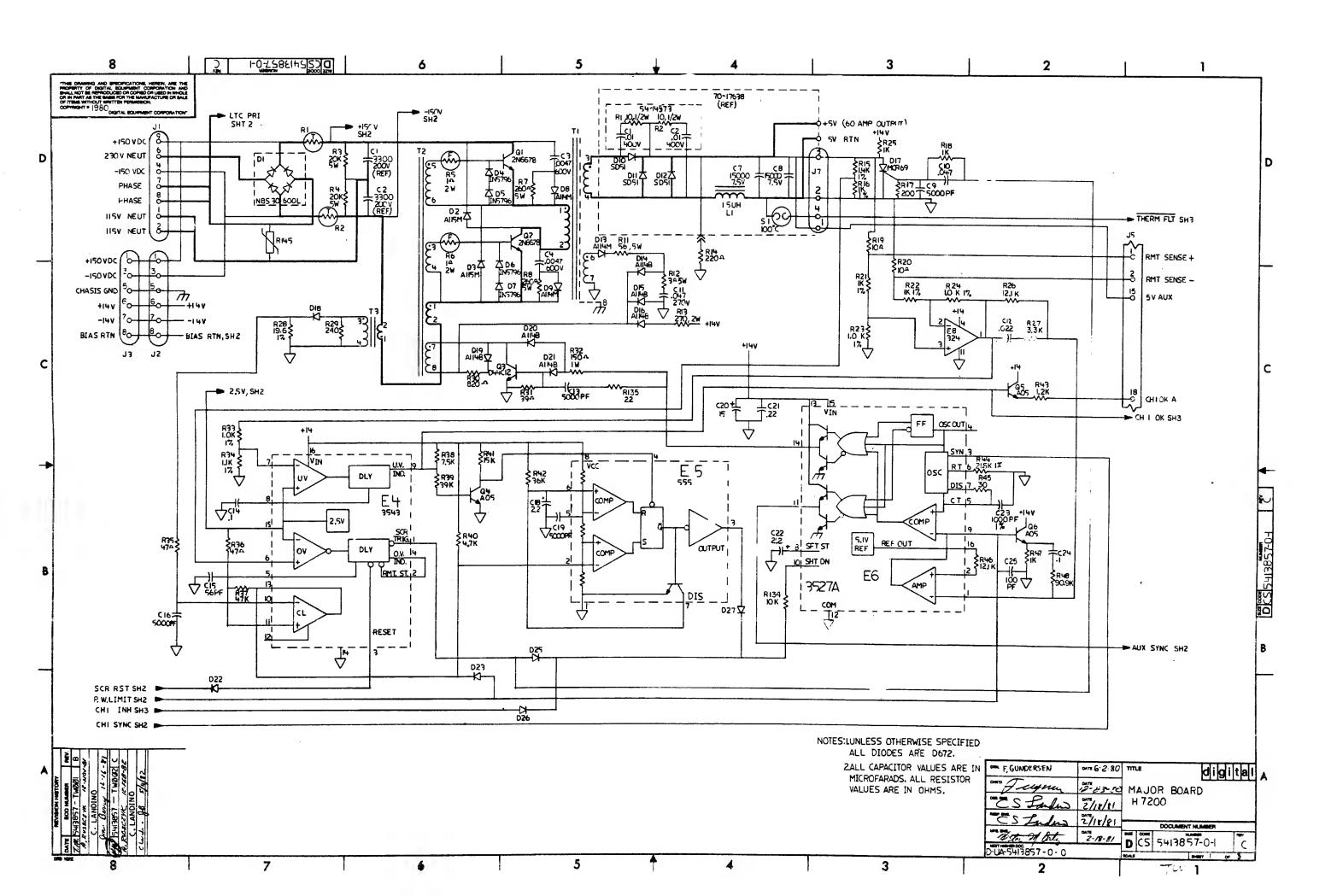
		- 1	
AUTOMATED BY PRTLST.3P(44)  LINE ITEM DOCUMENT NUMBER	PARIS PART NUMBER DESCRIPTION	L I S T	ARIATION SHEET AS OF A4
•			REFERENCE DESIGNATOR
30 30 31 31 32 32	1112595-01 A114B PIV=200 1 1114245-00 NBS30600LPIV=600 1 1112595-02 A114M PIV=600 1 1117061-00 MCR 69-1 THYRISTOR	I= IA	D14-D16,D19-D21,D34,D37-D40 D1 D8.D9.D13.D3O
33 33 34 34 35 35	1117061-00 MCR 69-1 THYRISTOF 1105796-01 5796-1PIV=400 1 1110994-00 1N 751A VZ= 5.1	₹ 1 [=1A DO41 4 5% 40W !	D17 D4-D7 D68
36 36 37 37 30 37	1100113-00 D 662 OS 600PC	CB(STABISTOR) 2 UNIV HEADER 1	D66,D67
38 38 39 39 40 40	1216122-08 HEADER 156 6POS F 1212518-04 HEADER 100 24POS S	ČEYED E	D1 D3,D9,D13,D30 D17 D4-D7 D68 D66,D67 J1 J2,J3 J4,J6 J5
0-1037560-000 301037560-000 300000000000000000000000000000000	1110994-00	-32 BRASS ELEC 4 READED INSERT 2 (EYED 1	J7
44 44 45 45 46 46	1214809-01 INSERT,W/O INTERNA 1214809-03 INSERT,W/O INTERNA 1300202-00 47.0 .25 W 5	AL THREADS,THRU 4 AL THREADS,THRU 3 5.0 % CC 5	R35.R36.R74.R62.R140
47 47   48 48   48 48	1300229-00 100.0 .25 W 9 1311337-00 56.0 5.0 W 9 1300288-00 270.0 2.0 W 10	10 % CC 2 10 % WW 1	R58, R104 R11 R13
50 50 51 51	1300365-00 1.0 K .25 W 5	.0 % CC 4	R18, R25, R47, R119 R29
53 53 54 54	1117061-00 MCR 69-1 THYRISTOR 1105796-01 5796-1PIV=400 1 1110994-00 1N 751A VZ= 5.1 1100113-00 D 662 OS 600PC 1212297-02 MATE-N-LOK 9PIN D 1218241-00 HEADER.156 8PIN P 1216122-08 HEADER.156 6POS P 1212518-04 HEADER.156 6POS P 1214789-00 INSERT THREADED 6- 1217304-00 HEAT SINK, W/NON-TH 1216122-00 HEAT SINK, W/NON-TH 1216122-00 HEAT SINK, W/NON-TH 1216122-00 HEAT SINK, W/NON-TH 1214809-01 INSERT, W/O INTERNED 1310337-00 100.0 .25 W 9 1300288-00 270.0 2.0 W10 13133469-00 100.0 .25 W 9 1300365-00 12.10 K .25 W 9 13003979-00 10.0 K .25 W 9 1300479-00 10.0 K .25 W 9 1300479-00 10.0 K .25 W 9 1300479-00 10.0 K .25 W 9	.0 % CC 5	R35,R36,R74,R62,R140 R58,R104 R11 R13 R18,R25,R47,R119 R29 R26,R46 R40,R96,R116,R120,R126 R87,R117,R123,R127,R133,R134, CONT R136,R71 R41,R128,R125,R142 R19,R20 R38,R138,R73 R30,R97,R121 R124,R128,R130 R61 R84 R37,R89,R90,R105-R107,R111-R113.
55 55 56 56	1300496-00 15.0 K .25 W 5	.0 % CC 4	CONT R136,R71 R41,R118,R125,R142 R19,R20
57 57 58 58 59 59	1300496-00	.0 % CC 2 .0 % CC 3 .0 % CC 3 .0 % CC 3 .0 % CC 1	R38,R138,R73 R30,R97,R121 R124,R128,R130
55 56 57 57 59 59 60 61 62 62	1300496-00	.0 % CC 4 .0 % CC 2 .0 % CC 3 .0 % CC 3 .0 % CC 1 .0 % RN55D-F10 1	R61 R84 R37 R89 R90 R105-R107 R111-R113
	1302377-00 39.0 .25 W 5 1302398-00 470.0 K .25 W 5		R37, R89, R90, R105-R107, R111-R113, CONT R131 R31 R93, R108 R39 R39
65 65 66 66	1302514-00	.0 % CC 1 .0 % CC 2 .0 % CC 1	R39, R34 R34 R34
68 68 BLANK 69 69	*** THIS ITEM IS	.0 % RN55D-F10 7 NOT USED *** - .0 % RN55D-F10 1 .10% RN55E-B 2 1	Rī6,R21-R24,R33,R57 R85 R80
70 70 71 71 72 72	1305516-00 128.0 K .25 W 1309963-00 260.0 5.0 W 3 1312546-00 16.50 K .25 W 1	.0 % RN55E-B 2 1	R7, R8
63 63 64 64 65 65 66 67 68 68 69 70 71 72 71 72 73 74 75 75	1312932-00 36.U K .25 W 5	.0 % CC 2 .0 % RN55D-F10 1 .0 % RN55D-F10 1	R42,R122 R48 R86
+++++++++++++++++++++++++++++	TLE H7200 MAJOR BOARD	SECTION A OF A	SIZE CODE DOCUMENT NUMBER REV
			K PL 5413857-0-DBP 5
			*

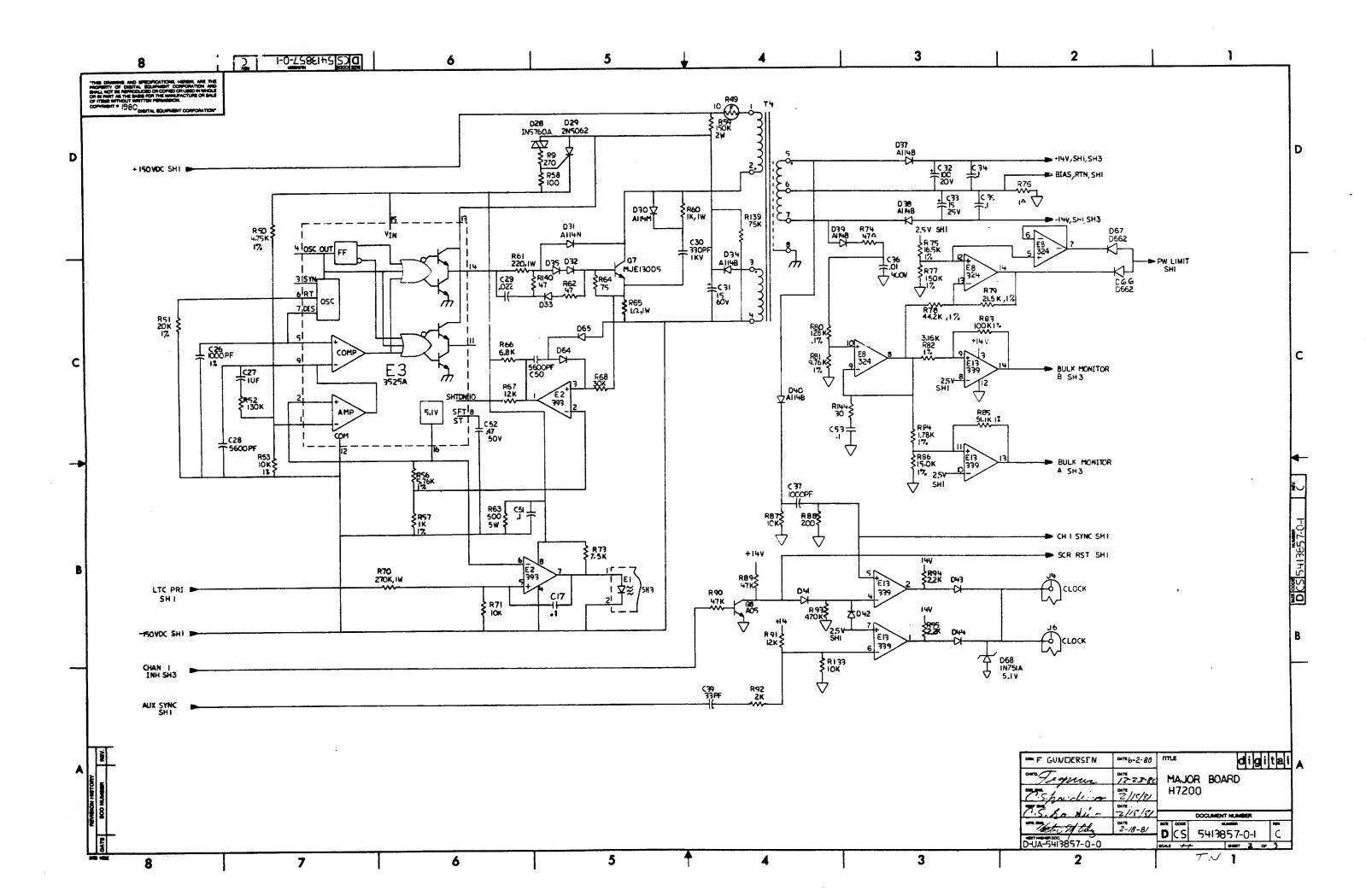
UTOMATED BY PRTLST.3P(44) INE ITEM DOÇUMENT NUMBER	PARTS PART NUMBER DESCRIPTION	S LIST QTY PER 00	SHEET A3 CF A R VARIATION REFERENCE DESIGNATOR
7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	150.05		R3. R4 R7. R6 R7. R6 R7. R6 R7. R91 R7. R92 R67, R93, R141 R7. R93 R7. R93, R109, R110 R7. R93, R110 R7. R93
D I G I T A L	TLE H7200 MAJOR BOARD	SECTION A OF A	SIZE CODE DOCUMENT NUMBER REV  K PL 5413857-0-DBP B

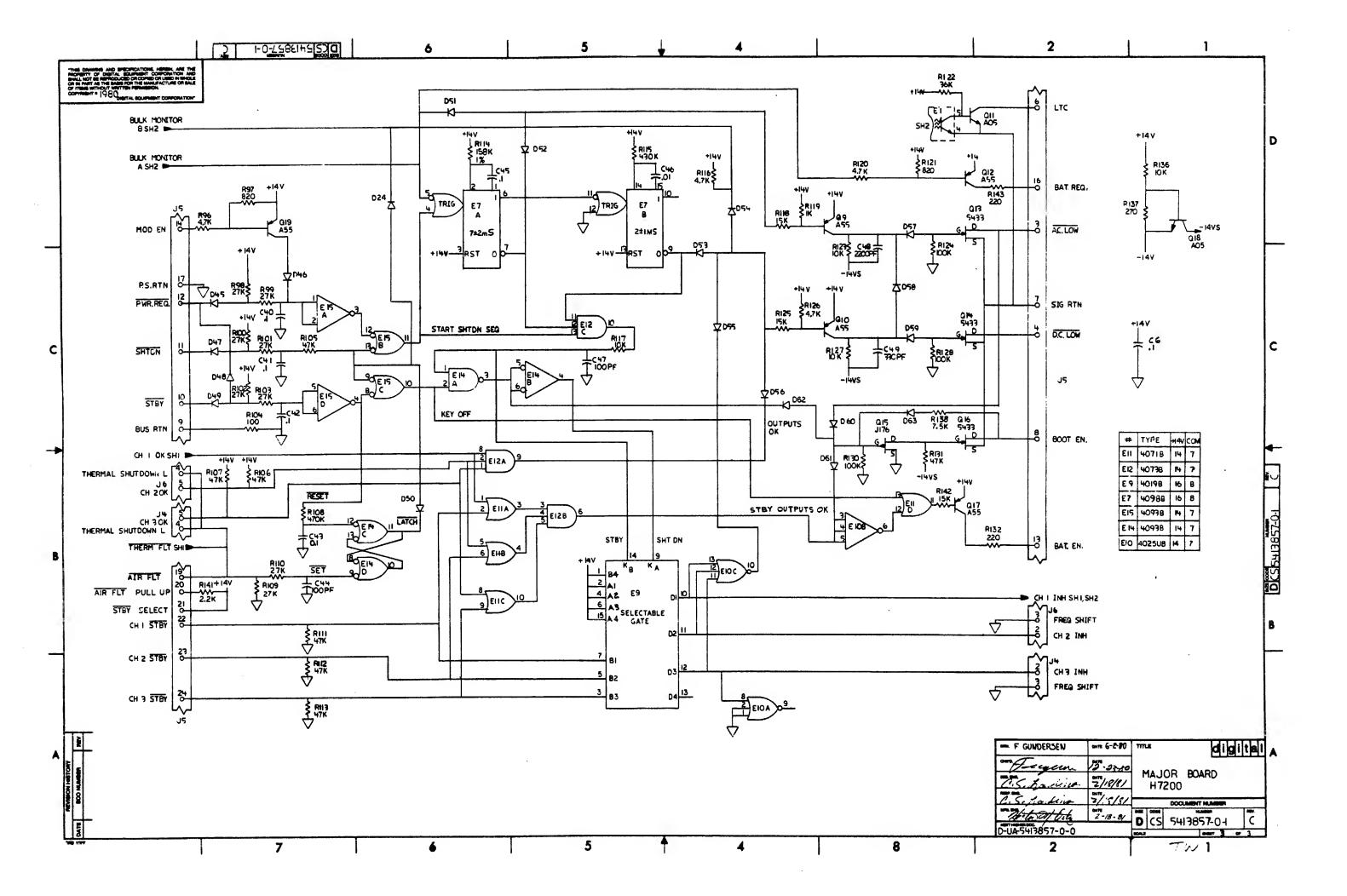
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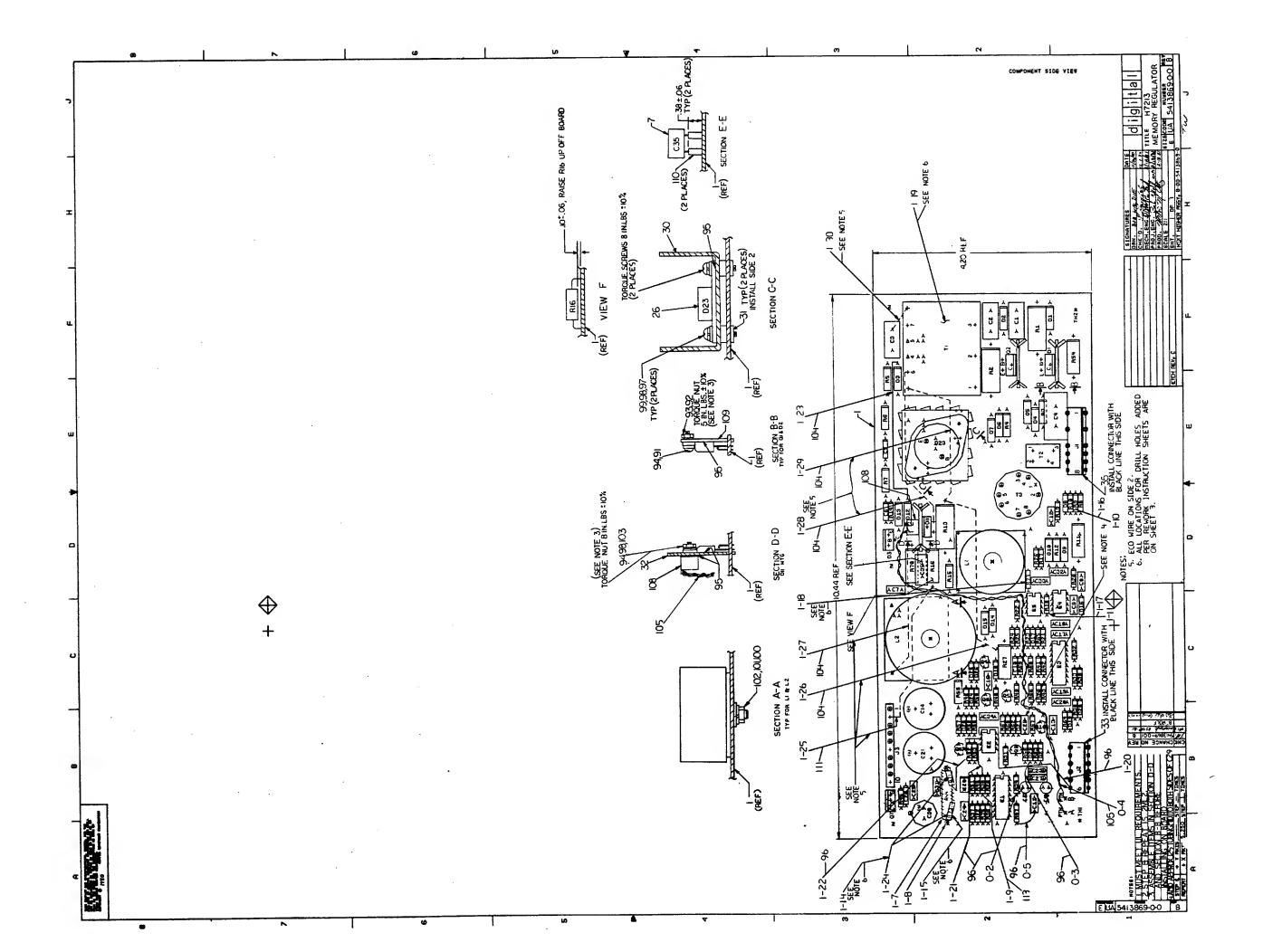
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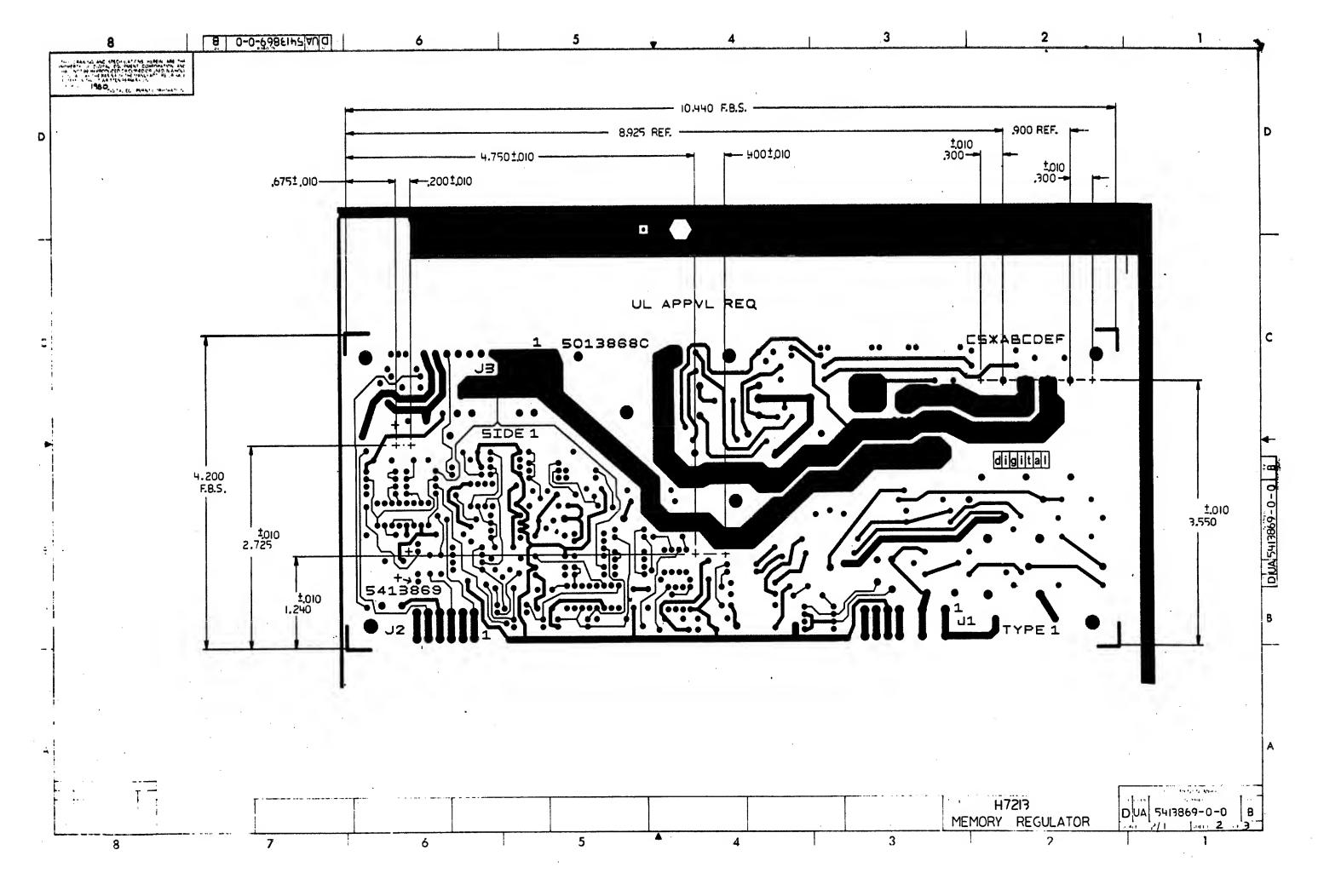
NUTOMATED BY INE ITEM DO	PRTLST.3P(44) CUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	00 017 FER VHF	SHEET RIATION REFERENCE DESIGNATOR	A4 OF A4
125678990123345678990123333456789901233456789990123345678999012334567899901233459001233459900000000000000000000000000000000		9105740-55 1617557-00 1617557-00 1617450-00 1911944-00 19112108-00 19112108-00 19112108-00 19112108-00 19112108-00 19112108-00 19112108-00 19112108-00 19112108-00 19112108-00 19112108-00 19113615-00 2113615-00 2113615-00 2113615-00 2113615-00 9007798-01 9007798-01 9007798-01 9007801-00 10016731-00 10016731-00 10016731-00 1318864-00 1318864-00 1318864-00 1318864-00 1318864-00 1318864-00 1318864-00	WIRE (WRAP) 30AWG XFMR, CURRENT RATIO 1:2:100 PULSE XFMR, RATIO 40:3,3:1 SPACER, INT. THD. 6-32X 18 SPACER, INT. THD. 6-32X 18 SPACER, INT. THD. 6-32X 18 324 OP AMP, QUAD 339 VOLT CMPRTR, QU OPTP-COUPLED IS 3543 P.S. SUPERVISO 4073B AND GATE-TRIPL 4073B AND G	1423 A/R 1 PC MT 1 17 6 187 1 187 1 180 1 180 1 180 1 180 1 180 1 181 1	132 E583 E5811 E5811 E107 E107 E15	
145 145 146 146 147 147 148 148 149 149 150 150 151 151 152 153 154 155 155 155		9009798-01 9007801-00 9008268-00 1001610-00 9006731-00 1300521-00 1318864-00 1115112-00 9107696-00 9107256-11	WASHER, LOCK, S.S. #6 COMPOUND, THERMAL JOINT .01 MFD 50V +80-20% ZS EYELET, (BRASS NICKEL PLAT 47.50 K .25 W 1.0 % RNS 75.0 .25 W 5.0 % 1.0 1.0 W 5.0 % PIV=800V I=1A WIRE, SOLID, 18AWG, IPVC UL TUBING, THIN WALL, .027ID	O 78 10 14	C5 R50 R64 R65 D31	
156 NOTE: 157 NOTE: 158 NOTE: 159 NOTE:	ITEM #124; .82' IS ITEM #106; .33' IS ITEM #154; .11' IS ITEM #155; .07' IS	USED USED USED USED				
*						
D I G	I T A L	LE H7200 MAJO	R BOARD SEC	TION A OF A	SIZE CODE DOCUMENT NUMBER  K PL 5413857-0-DBP	REV











REWORK INSTRUCTIONS WIRE ADDS SIDE 1: O-2 ADD ITEM 96 FROM EI PIN 12 TO C22(+).
O-3 ADD ITEM 96 FROM C22(+) TO D29 ANODE
O-4 ADD ITEM 95 FROM ITEM 108 PIN 1 TO PTH A
(RED WIRE CONNECT BLACK WIRE FROM PIN 2
D-5 ADD ITEM 96 FROM R47 TO CIL ECO # I COMPONENT DELETES SIDE! COMPONENT DELETES SIDE !

1-7 DELETE RY4 DEC# 1909094-00.

1-8 DELETE CERAMIC SPACERS DEC#9009798-01.

1-9 DELETE R98 DEC#1909047-00.

1-10 DELETE R9 DEC#1902602-00.

1-11 DELETE R18 DEC#1909416-00.

1-12 DELETE T1 DEC#1617439-00. COMPONENT ADDS SIDE I COMPONENT ADDS SIDE I

1-13 ADD R38 DEC #136836-00.

1-14 DRILL ONE .042" HOLE AND ADD R71
DEC #1305324-00.

1-15 DRILL ONE .042" HOLE AND ADD R72
DEC #1303114-00.

1-16 ADD R8 DEC #1300202-00.

1-17 ADD R18 DEC #1504-00.

1-18 DRILL THO .042" HOLES AND ADD R73
DEC #131594-00. ON SIDE 2 TACK SOLDER
R73 FROM ETCH RUN BETWEEN C33 AND
E5-4 TO R26. (SIDE CONNECTED TO C32)

1-19 DRILL THO .055" HOLES AND ADD T1
DEC #161879-00. DEC # 1618879-00. WIRE ADDS SIDE I 1-20 ADD ITEM 96 FROM E2-1 TO J2-6. 1-21 ADD ITEM 96 FROM E2-3 TO R38. 1-22 ADD ITEM 96 FROM E2-2 TO R71. (WRAP AND SOLDER TO COMPONENT LEAD)
1-23 ADD ITEM 104 FROM DIZ/CATHODE TO D3/CATHODE. WIRE ADDS SIDE 2 1-24 JUMPER R72 TO R7L (USE COMPONENT LEADS)
1-25 ADD ITEM III FROM J3-2 TO RIG. (TACK SOLDER BOTH SIDES TO ETCH) 1-26 ADD ITEM 104 FROM PTH ABOVE R27 TO RIS. (TACK SOLDER TO ETCH)
1-27 ADD ITEM 104 FROM L2 (SIDE CONNECTED TO CI4/NEG) TO DI2/ANODE, (TACK SOLDER BOTH SIDES TO ETCH)
1-28 ADD ITEM 04 FROM DILLANODE TO TI-6, (TACK SOLDER BOTH SIDES TO ETCH) 1-29 ADD ITEM 104 FROM RIF (TACK SOLDER TO ETCH) TO TI-8. (WRAP AND SOLDER TO COMPONENT LEAD)
1-30 ADD ITEM 104 FROM C3 (TACK SOLDER TO ETCH)
TO TI-9. (WRAP AND SOLDER TO COMPONENT LEAD) E 145413969-0-0 B TLE H7213 MEMORY REGULATOR

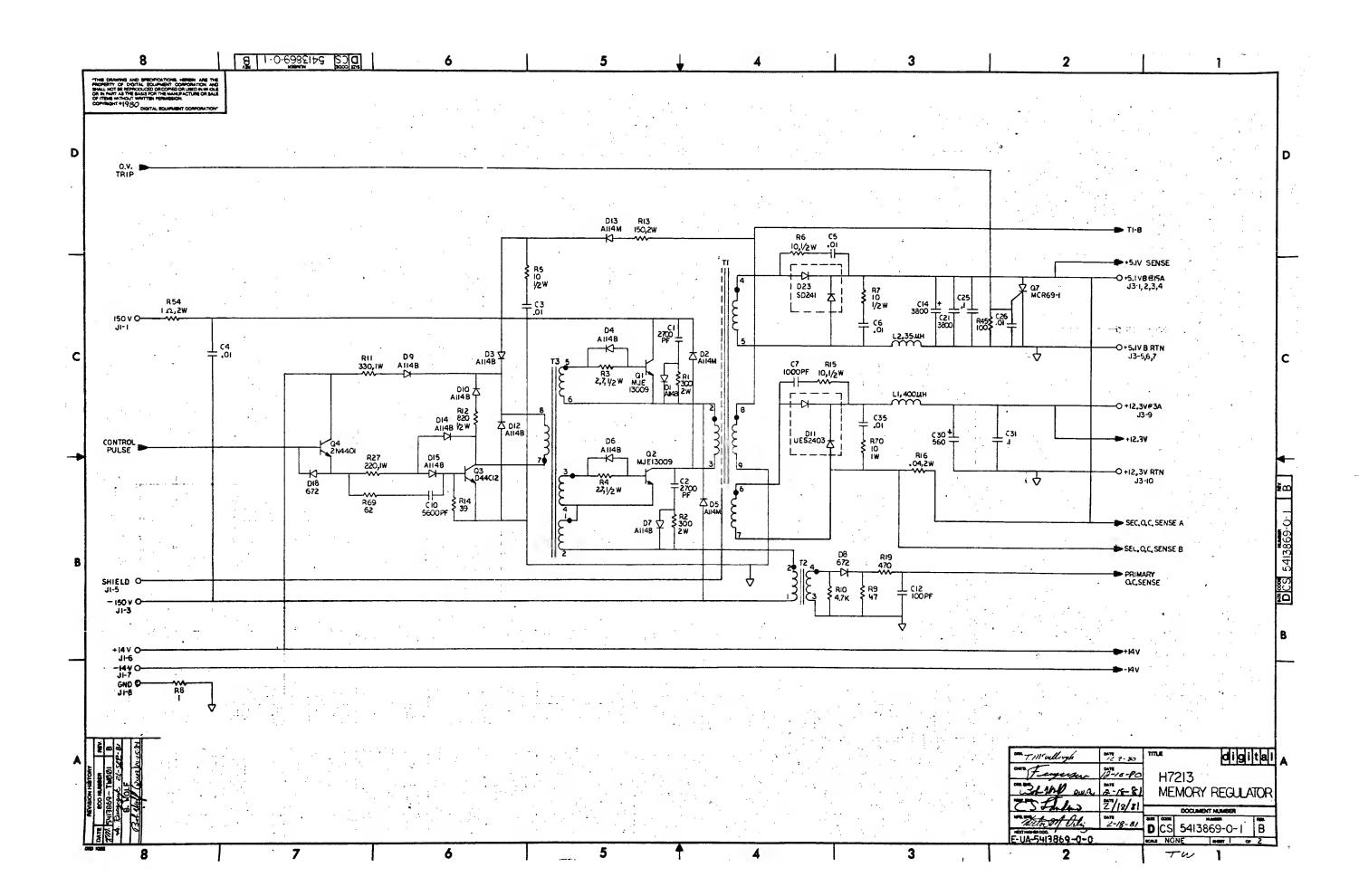
AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER D	PARTS LIST ESCRIPTION	QTY PER VARIATION REFERENCE D	SHEET A1 OF A3 ESIGNATOR
1	5013868-00 1000018-00 1012607-00 1012607-00 1010274-00 1010978-36 1011847-01 1010978-24 1014169-00 1014277-00 1014277-00 1017426-00 1015573-01 1010978-32 101847-02 1010978-32 1018970-00 1018000-01 10105275-00 1112595-01	RILL AND ETCH 120.0 MMF 100V 5×200PPM MICA 560 MF0 20V+100-10× AL EL 01 MF0 50V +80-20× 25U CER 22 MCC 50V +80-20× 25U CER 1 MFD 50V 10× POLYPROP 100.0 MMF 100V 5×200PPM MICA 01 MFD 400V 10× POLYPROP 100.0 MMF 100V 1×200PPM MICA 01 MFD 50V 10× POLYPROP 01 MFD 6.3V +75-10× AL EL 700.0 MMF 250V 10× POLYPROP 000.0 MMF 250V 10× POLYPROP 000.0 MMF 250V 10× POLYPROP 000.0 MMF 50V 5×200PPM MICA 01 MFD 600V 10× POLYPROP 180.0 MMF 100V 5×200PPM MICA 01 MFD 600V 10× POLYPROP 01 MFD 50V 10× POLYPROP 02.2 MFD 63V +50-10 AL EL 15 MFD 25V +50-10 AL EL 17.0 MMF 100V 5×200PPM MICA 047.0 MMF 100V 5×200PPM MICA	Cont Cont Cont Cont Cont Cont Cont Cont	17,033,034 D24,027-D29 ,D7,D9,D10,D12,D14,
23 24 25 26 27 28 29 29	1102495-00 1112595-02 1117555-00 UI 1116323-00 SI 1109517-00 II 1110766-00 MG	VZ= 3.3 5% .25W A114M PIV=600 I= 1A ES2403 RECTIFIER 150V 3A T0220 D 241 PIV= 45 I=30A N 9148 TR= 4N5 PIV= 75V 5Y N 52488 VZ= 18.0 5% .50W CR 69-1 THYRISTOR	1 016 3 02,05,013 1 011 1 023 1 025 1 026	,
REVISION HISTORY BASIC ENG! ECO NUMBER REV SECTI INITIAL A SECTI [A] [B] [C] [F] [H] [K] [K]	PART NO: S413869  ION A OF A  ION. VARIATION INDEX	DRN: J.FERGUSON DATE  CHK'D: B.WALDIE DATE  DES.ENG: B.WOLF DATE  RESP.ENG.: B.WOLF DATE  MFG.ENG.: H.ORTIZ DATE  ASSEMBLY NUMBER: TOP  D-UA-5413869-0-0  B-00	: 12-22-BD	NT NUMBER REV 369-0-DBP NAME: LPLS
THIS DRAWING AND SPECIFIOR COPIED OR USED IN WHO	ILE OR IN PART AS TH	THE PROPERTY OF DIGITAL EQUIPME SE BASIS FOR THE MANUFACTURE OR S (C) 1981. DIGITAL EQUIPMENT COR	ALE OF ITEMS WITHOUT WRITTEN	PERNISSION.

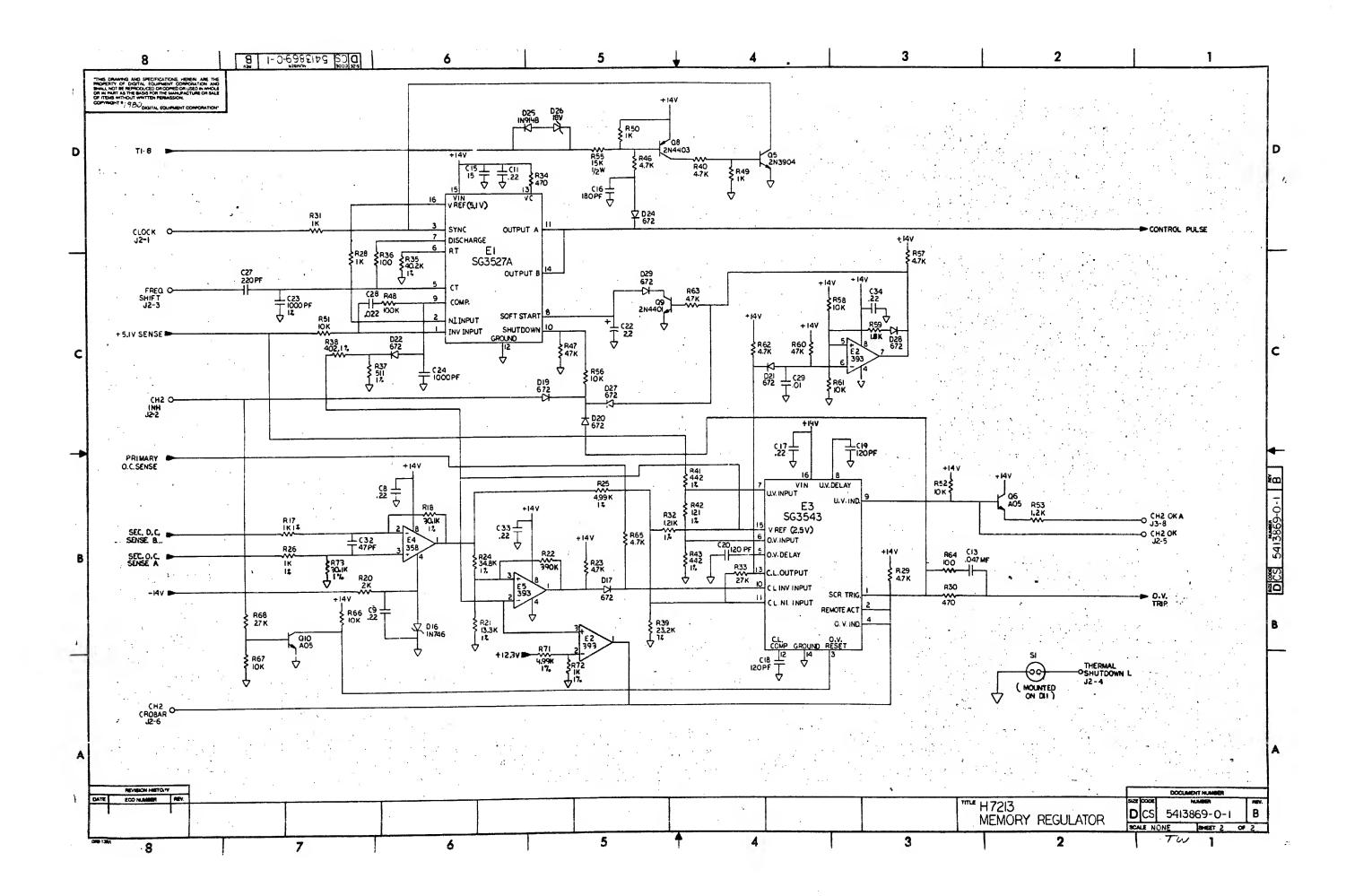
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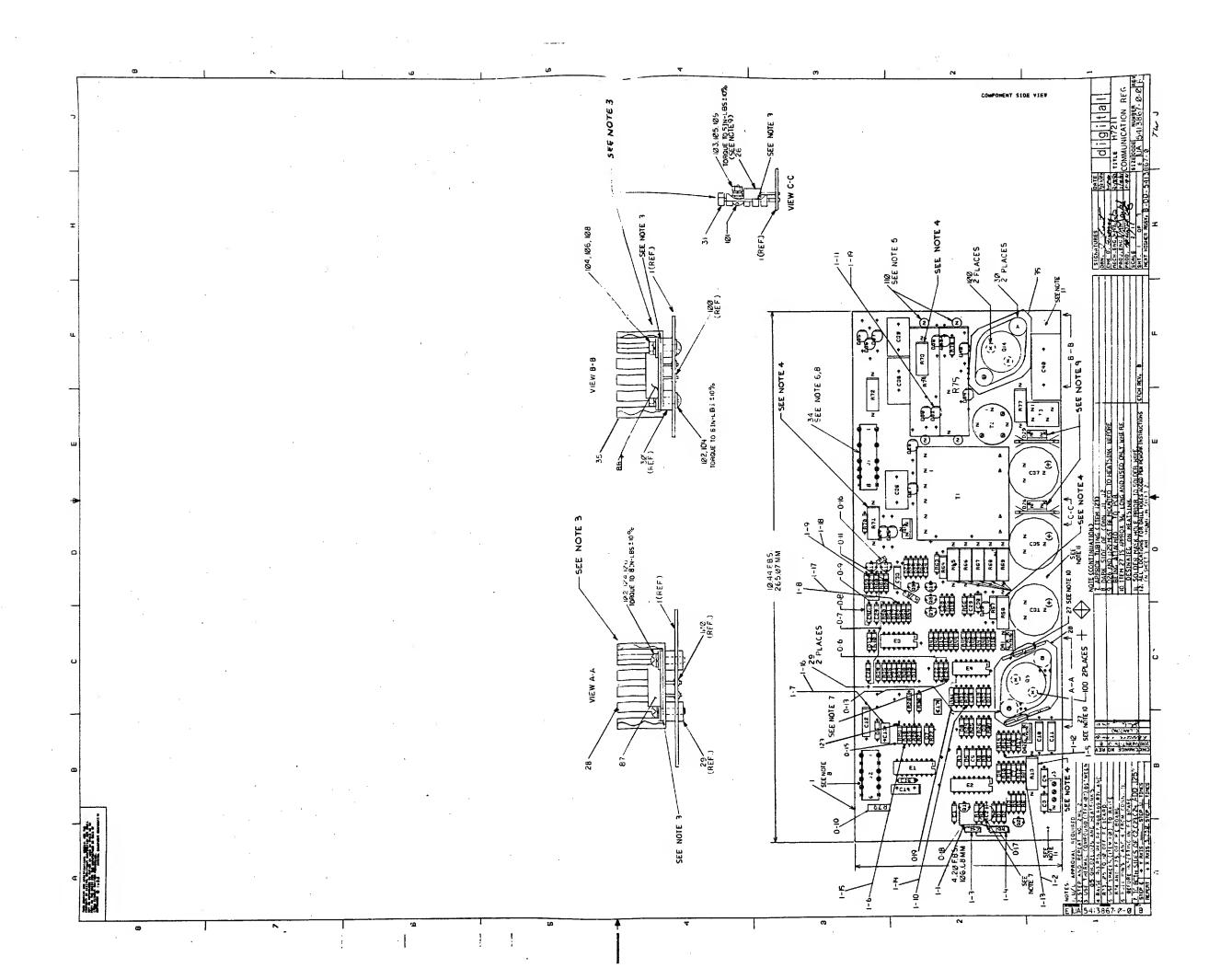
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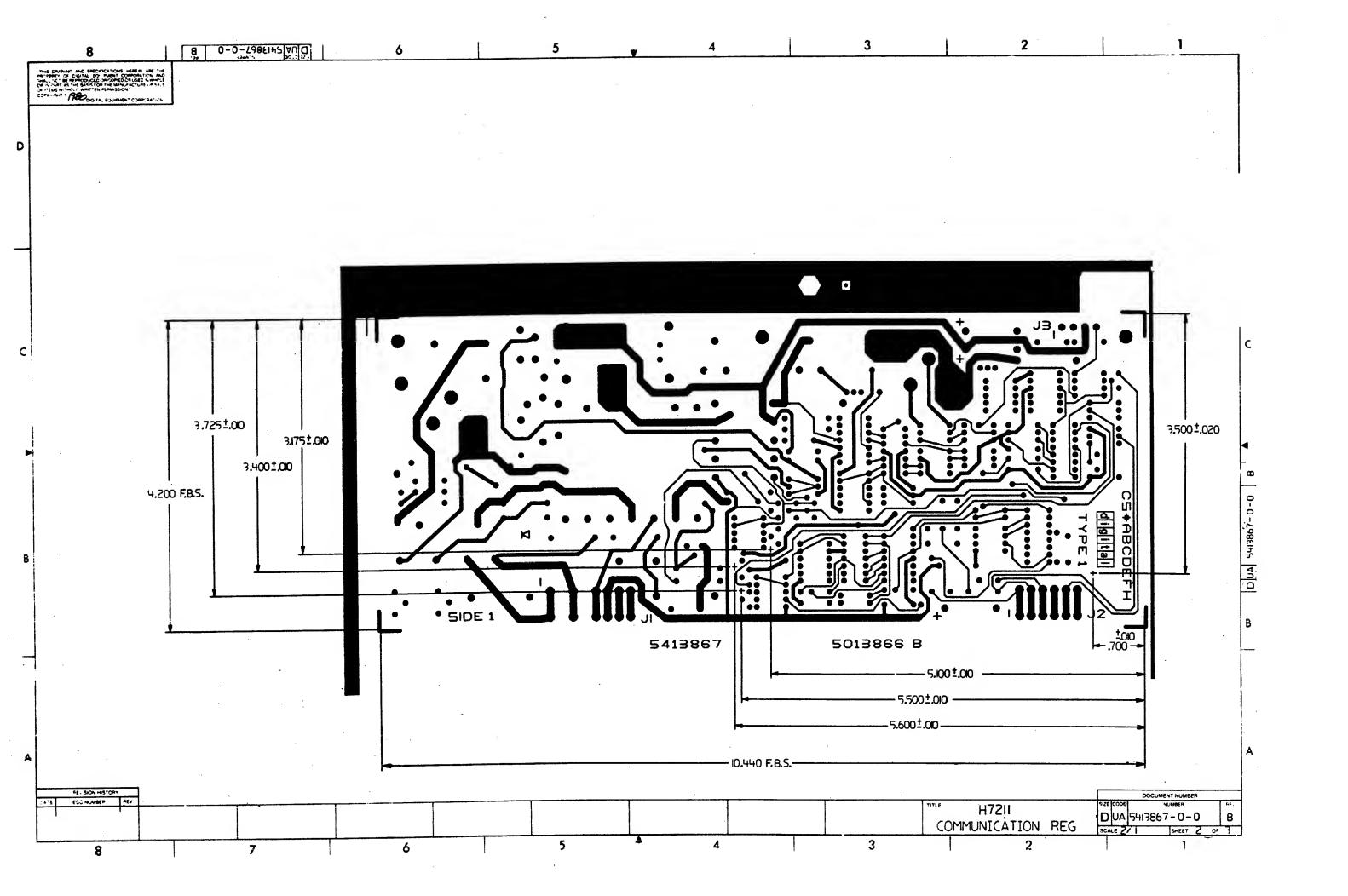
AUTOMATED	RY PRTLS1	.3P(44)		PART5 L	I 5 T			SHEET A2 OF A3
LINE ITEM	DOCUMENT		PART NUMBER	DESCRIPTION		QTY PER V	ARIATION REFERENCE DI	
3012334567899012 332334567899012 33334567899012 412		a	1216688-01 1214789-00 1215228-02 1217990-04 1216122-09 1217990-02 1300229-00 1313347-00 1309855-00 1300316-00 1300365-00	HEAT SINK, TO3 INSERT, THREADED 6-32 HEAT SINK, TO-220, #6   HEADER.156 65KT RCP  HEADER.156 10P0S KEYE HEADER.156 85KT RCP  100.0 .25 W 5.0 220.0 1.0 W 5.0 330.0 1.0 W 5.0 330.0 1.0 W 5.0 470.0 .25 W 5.0 470.0 .25 W 5.0	BRASS ELEC TO HOLE  CC C	121113121349	J2 J3 J1 R36,R45,R64 R27 R1,R2 R11 R19,R30,R34 R28,R31,R49 R10,R23,R29	R50 R40,R46,R57,R62,R63,
34567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567777776			1300479-00 1300479-00 1300411-00 1301320-00 1302377-00 1300356-00 1300357-00 1303144-00 1303144-00 1304451-00 1307441-00 1307441-00 1307441-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00 1307384-00	10.00	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	741111111101011111111111111111111111111	R51, R52, R56, R51, R51, R61, R51, R61, R51, R61, R61, R61, R61, R61, R61, R61, R6	R50 R40,R46,R57,R62,R63, R58,R61,R66,R67
DII	G   I   T	AL	TLE H7213 MEMOR	RY REGULATOR	SECTION A	OF A	!!!!	NT NUMBER ! REV !

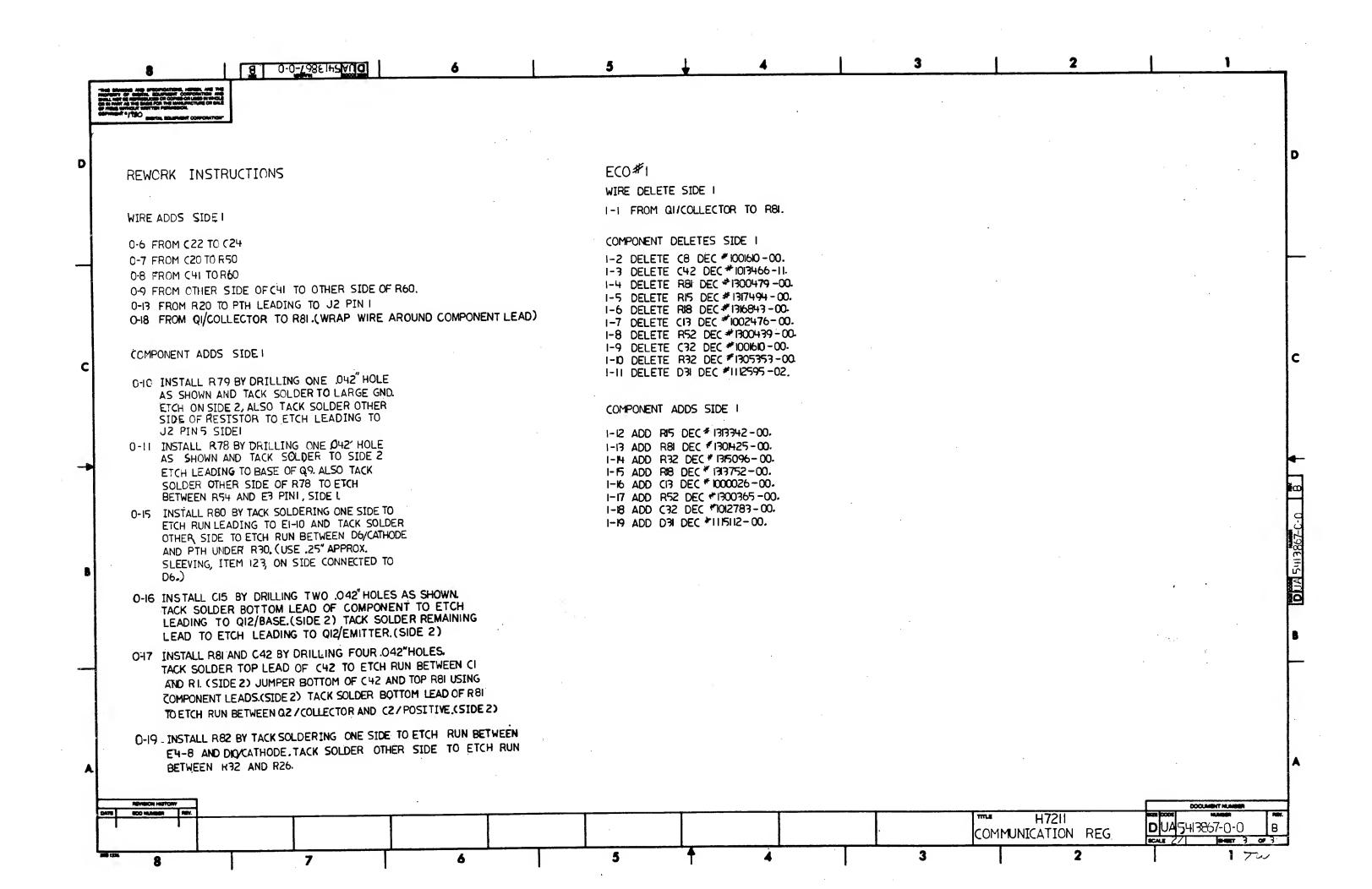
JTOMATED INE ITEM	BŸ PRTLS1 Document	NUMBER	PART NUMBER	PARTS LIST Description	QTY PER VARIS	ATION REFERENCE D	SHEET A	93 OF A3
77 778 812 883 4 5 6 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			1509524-00 1513489-00 1513489-00 1517790-00 1517490-00 1617439-00 1617439-00 1617568-00 1617668-00 1617668-00 1917668-00 1917908-00 1917908-00 1917908-00 1917908-00 1917908-00 1917908-00 1917908-00 1907801-00 1007908-00 1007908-00 1007908-00 1007908-00 1007908-00 1007908-00 1007908-00 1007908-00 1007908-00 1007908-00	2N 3904 NPN 310MW SI 40 40 M 2N 4401 NPN 350MW SI 40 20 0 44C12 NPN 30W SI MJE13009 NPN 100W SI 2N 4403 PNP 350MW SI-40 30 PULSE XFMR, RATIO 40:3, 3:1 XFMR P=360V S=25/62V XFMR, CURRENT RATIO 1:2:100 PC 7 35.0 UH 20% 15A 200.0 UH 20% 15A NUT, HEX 4-40X 5/16 SS NASHER, LOCK, S.S. #4 NASHER, LOCK, S.S. #6 NASHER, FLAT, .312 0.D. X .156 NUT, HEX 10-32 X1/4 AF X NASHER, LOCK, S.S. #10	T FILE I A A A A A A A A A A A A A A A A A A	QS, Q9 Q3, Q2 Q1, Q2 T3 T12 E13, ES C27 R22		
11 NOTE: 12 NOTE: 13 NOTE:	ITEM NO ITEM NO ITEM NO	96 IS .17 105 IS .79 110 IS .10	FT. 5 FT. 0 FT.		•			











AUTOMATED BY PRILST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	OTY FER VARIATION REFERENCE DESIGNATOR
-0-13866-0-12375-67-890-12375-6	1105275-00 1112595-01 1112595-02	ORILL + ETCH 6R0  .01	5 5 C3-C5,C29,C30 1 1 C14 2 2 C7,C16 3 3 C10-C12 3 3 C31,C35,C37 1 1 C40 1 1 D9 21 21 D1-D8,D10-D18,D20-D23 9 9 D19,D24,D25,D27,D35-D39 1 1 D30
ENG ECO NUMBER REV SE INITIAL B	ASIC PART NO: 5413867 ECTION A OF A ECTION.VARIATION INDE [A] OD, YA [B] [C] [O] [E] [F] [H] [J] [K] [M] [N] CIFICATIONS HEREIN. A WHOLE OR IN PART AS COPYRIG	CHK'D: J. FERGUSON DAT  CHK'D: J. FERGUSON DAT  DES.ENG: D. DRINKWATER DAT  RESP.ENG.: C. LANDINO DAT  MFG.ENG.: H. ORTIZ DAT  ASSEMBLY NUMBER: TOP D-UA-5413867-0-0 B-D	E: 5-AUG-80  TITLE PARTS LIST  E: 21-OCT-80  H7211 COMMUNICATIONS REG  DOCUMENT NUMBER  E: 21-OCT-80  SIZE CODE NUMBER  REV  E: 23-FEB-81 K PL 5413867-J-DBP B  DOCUMENT NUMBER: FILE NAME: EDIT #  DO-5413867-O-O Z1309B.PLS  ENT CORPORATION AND SHALL NOT BE REPRODUCED SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

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AUTOMATED BY PRILST.3P(44) LINE ITEM DOCUMENT NUMBER	PART PART NUMBER DESCRIPTION	AY GO	SHEET A2 OF A4 ARIATION REFERENCE DESIGNATOR
10071067890101071567 377775678901071071567 BL	1215228-00 HEAT SINK, TO-2 1216122-11 HEADER.156 4P 1217990-04 HEADER.156 8S 1217990-02 HEADER.156 8S 1213426-01 HEAT SINK TO-3 1301425-00 300.0 .25 1300171-00 10.0 1.0 130029-00 100.0 .25 1300315-00 470.0 1.0 1300391-00 1.50 K .25 1300398-00 1.80 K .25 1300426-00 2.70 K .25	M 2.0 % CC 13 13	J3 J2 J1 R81 R65 R4, R47, R76, R60 R72 R57, R64 R20, R52 R25 R33, R45 R33, R45 R5 R38 R1, R3, R12, R19, R39, R40, R51, R53, R54, R56, R78, R80, R82
489 55123456789012345678901234567 77777777777777777777777777777777777	1301377-00 1301377-00	1231111102103001010101010101010101010101	R1 R3 R12 R19 R39 R40 R51 R53,  R54 R56 R78 R80 R82  R62 R6.R31 R50 R61, R79 R21 R63 R22 R49 R14 R9.R34 R86, R67, R69 R27 R88 R41 R55 R36 R27 R41 R55 R36 R27 R41 R7, R46 R77 R43 R17, R46 R77 R37 R37 R30 R10 R59 R32 R24 **********************************
D I G I T A L	H7211 COMMUNICATIONS REG	SECTION A OF A	K PL 5413867-0-DBP B

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78 79 812345 82 88 88 88 88 88 88 88 88 88 88 88 88	1314397-00 1314397-00 1314397-00 1314397-00 1317515-00 1317515-00 13180395-00 13180395-00 13180395-00 15108889-00 151124899-00 151124819-00 15112497-00 15112497-00 15112108-0	9.53		R736 R57 011, 012 R57 011, 011 R57 011, 011 R736 R77 011 R737 011 R737 R61, 4 019 R74 017 R75 R61, 4 019 R75 R6		

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PARTS LIST

SECTION A OF A

SHEET A4 0

LINE ITEM DOCUMENT NUMBER

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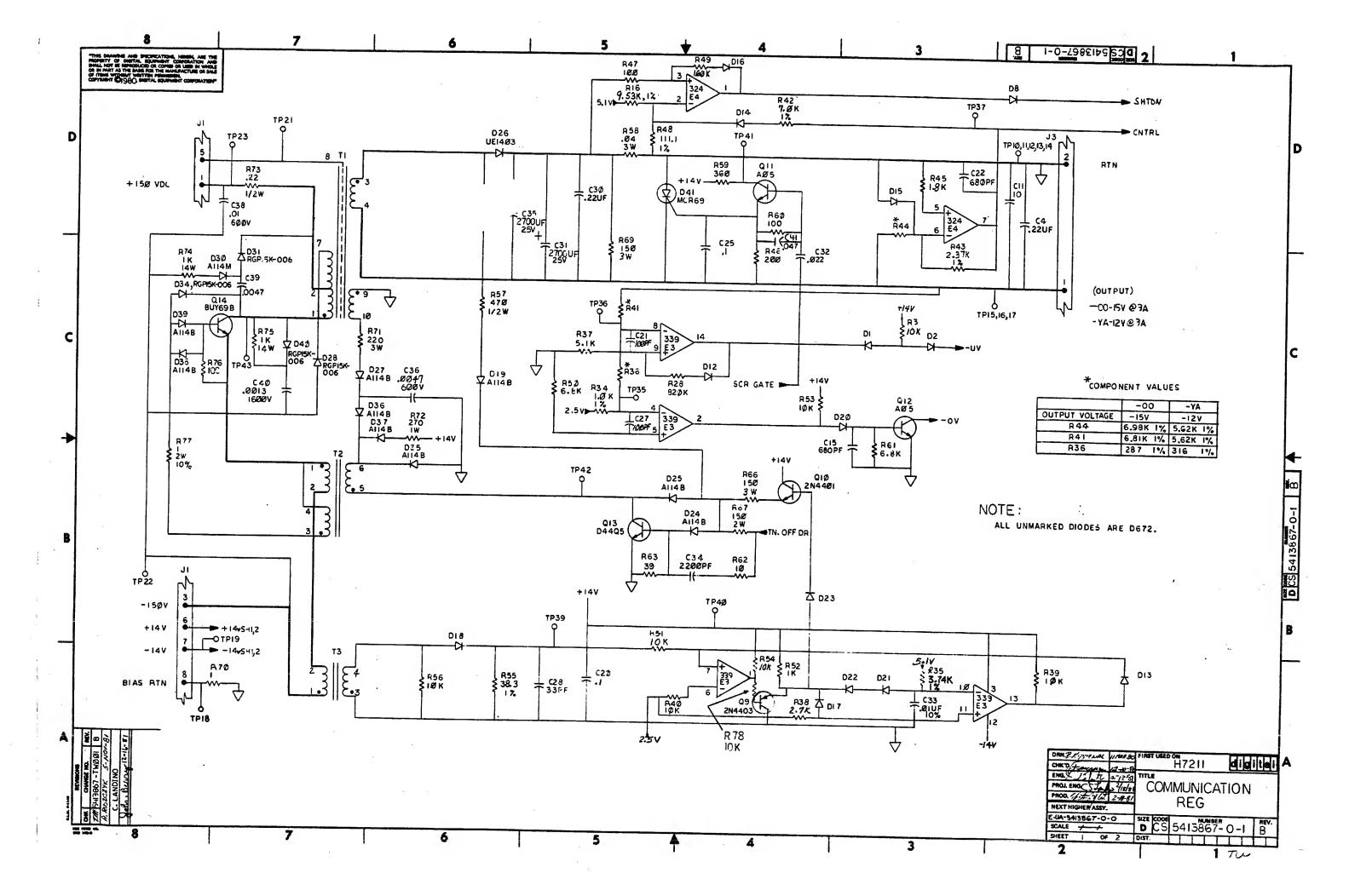
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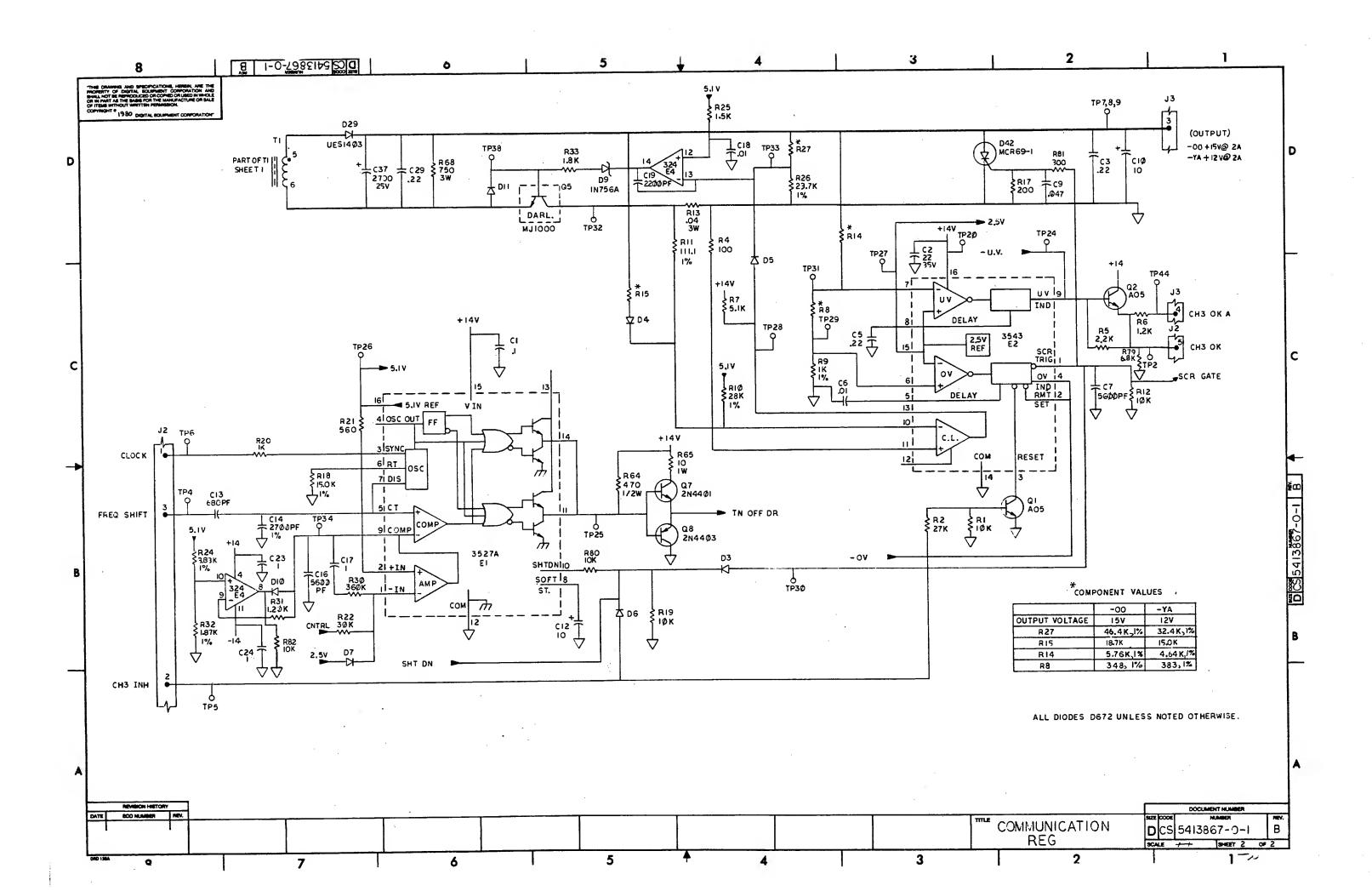
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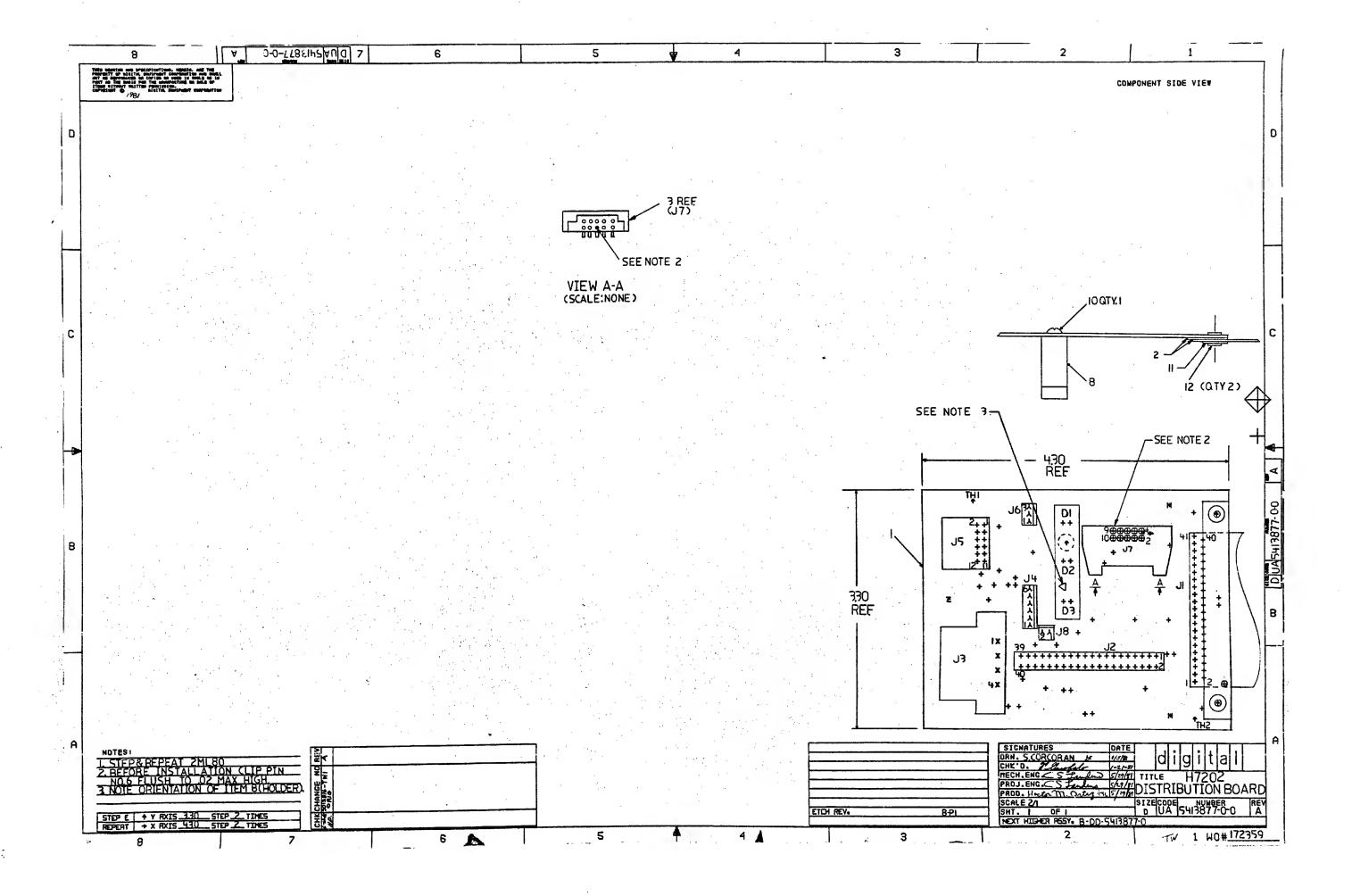
124 NOTE: ITEM #122; .37' IS USED. 125 NOTE: ITEM #123; .13' IS USED. 126 NOTE: ITEM #27; .15' IS USED.

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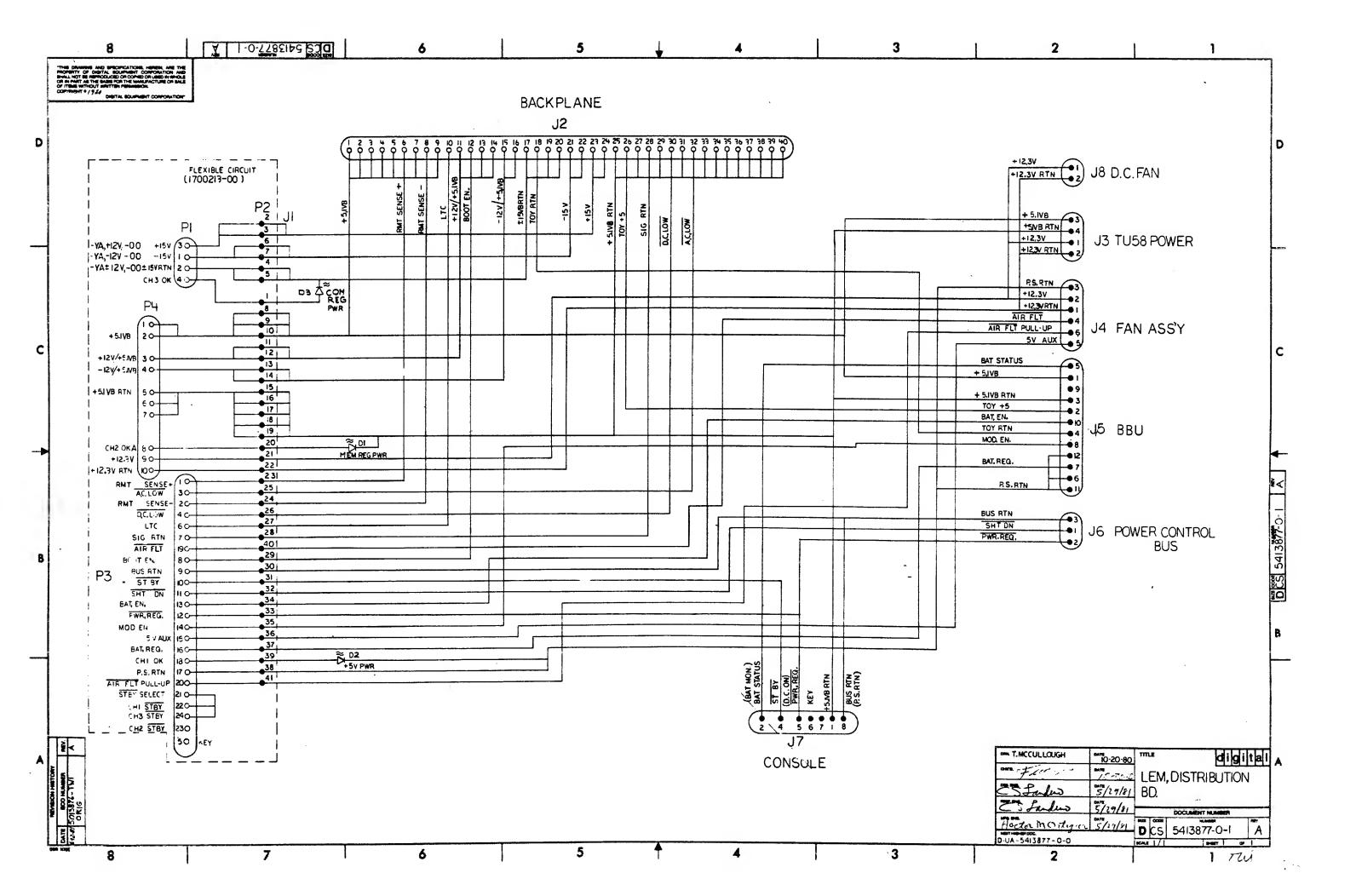






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1 1 D-MD-S013876-0-0 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11 C-MD-7425196-0-0 12 12 13 13 14 14	\$013876-00 1700213-00 1209941-05 1211004-01 1218213-02 1216112-04 1218027-00 1210940-02 1110324-00 9010128-00 7425196-00 9000024-01 1218243-03	DRILL AND ETCH BOARD CIRCUIT, FLEXIBLE DISTRIBUTION HEADER.100 10POS RT ANGLE SOCKET.100 40POS BOTTOM MOUNT HEADER.100 12POS DB SHROUDED HEADER.100 12POS DB SHROUDED HEADER 4PIN RT ANGLE LED HOLDER(3-DEC PART 11-10864) LED 1MCD@10MA PIV=3 SCREW, TAPPING, TYPE PAN , PHIL, BRACKET, STRAIN RELIEF EYELET, ROLL FLANGE 1210DX 192 HEADER.100 3PIN STRAIGHT HEADER.100 6PIN STRAIGHT	111111111111111111111111111111111111111		J7 J2 J8 J5 J3 D1-D3				

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REV DESCRIPTION

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OUTPUT SPECIFICATIONS

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#### CHAPTER 1 SCOPE

## 1.1 General Description - H7200 Series Power Supplies

This specification covers an off-line, high frequency switching power supply with a regulated 5 volt main output at 0 to 60 amps, memory and communications options outputs up to 400W total for all. It consists of a motherboard with supporting chassis and input-output connections. Size is approximately 15 x 50 cm. and 12 cm. high; weight is approximately 8 kilograms. Input power is 90-132 or 180-264 (internal select switch) at 48-63 Hz.

Outputs are divided into three groups: Hain output (Channel 1): 5.1V main; Memory outputs (Channel 2): +5V at 15A for MOS memory, and DC Fan/TU58 power; Com Outputs (Channel 3): ±15V.

All outputs except fan/TU58 +12V feature overvoltage and overcurrent protection and are regulated independently of one another. Battery backup and AC standby are operable for the memory power channel (CH2).

Additionally, AC low and DC:low signals are provided as well as AC line clock and boot enable. This power supply will be UL recognized, CSA certified and comply with DEC-STD-119 Rev 3.

### 1.2 Reference Documents

DEC Standard 023 - Circuit Schematics
DEC Standard 60 - Policy Relating to Nationally and Internationally Recognized Laboratories.
DEC Standard 102 - Section;7 - EM1
DEC Standard 102 - Environmental Standards
DEC Standard 116 - Workmanship Standards
DEC Standard 119 - Product Safety
DEC Standard 120 - Cooling Standards
DEC Standard 122 - AC Power Line Standard
DEC Standard 123 - Power Control Bus Standard
DEC Standard 139 - Reliability Prediction
DEC Standard 158 - Unibus

Engineering Print Set
DEC Standard 002 - AC Power Wiring, Grounding, Receptacles and

DEC Standard 030 - Module Hanufacturing Specification

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# CHAPTER 2 ELECTRICAL SPECIFICATIONS (H7202B)

## 2.1 <u>Input Specifications - AC Line</u>

Note: Selection of low range or high range is accomplished through a tool operated slide switch located adjacent to the circuit breaker. A clear cover is also used to discourage casual operation.

## 2.1.1 Line Voltage

Line impedance must be sufficiently low to assure less than 5% total harmonic distortion of the line AC waveform.

Low Range: (120V nominal) 90-132 (rms) single phase three

High Range: (240V nominal) 180-264 (rms) single phase three wire.

## 2.1.2 Line Frequency

47-63 Hz for either voltage range.

## 2.1.3 Line Current

Peak and RMS currents vary proportionally with line voltage.

Low Voltage Range: 8.5 amperes (rms) max. and 25 amperes (peak) max. at a nominal 120 VRMS line.

High Voltage Range: 4.2 amperes (rms) max. and 12 amperes (peak) max. at a nominal 240 VRMS line.

## 2.1.4 Power Factor

The ratio of real power to apparent power shall be greater than 0.60 at full output load and nominal input voltage.

At first application of input voltage to the power supply, the stated surge current may be reached for 1/2 cycle of the input line. Following that, there will be repetitive peaks of lower amplitude for up to 10 more cycles of the line.

Maximums:

Low Voltage Range:

120 A (Peak)

ligh Voltage Range:

120 A (Peak)

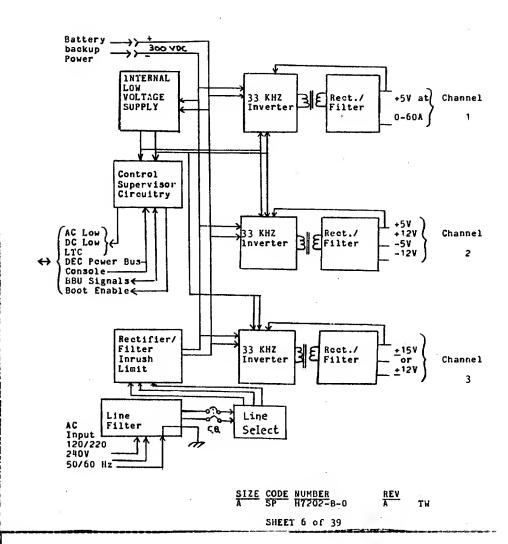
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#### DIGITAL EQUIPMENT CORPORATION

#### FIGURE 1

#### FUNCTIONAL BLOCK DIAGRAM FOR H7200 SERIES POWER SUPPLIES



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## 2.1.6 <u>Input Overload Protection</u>

A two pole circuit breaker is provided to protect the input wire and components. This breaker is accessible and is a 15 Amp rating for both 120V and 240V settings.

## 2.1.7 Insulation/Hi-Pot

- 2.1.7.1 2120 V dc and 3D0 VAC, (rms) 50 Hz between input and frame and shields for 1 minute as specified in DEC-STD-119 Rev C, section 2, paragraph 2.
- 2.1.7.2 2500 VAC (rms) 50 Hz between input and output for 1 minute. In accordance with DEC-STD-119 Rev C. This excludes the line filter.
- 2.1.7.3 All isolation transformers shall have been high potential tested prior to assembly into a module or assembly. Devices without shields will have been tested to reinforced insulation levels (3750

## 2.1.8 Input Power

The average input power shall be  $650~\mathrm{watts}$  max. with the outputs loaded to a total of 400 watts.

## 2.1.9 Grounding

The green/yellow bonding ground wire is connected to the metal case and to transformer shields. It is internally connected to the main 5V return.

## 2.1.10 Ride-Through Capability

All outputs are maintained within stated regulation limits for a minimum of 6 milliseconds after input power interruption at low line (either voltage range). AC low may be
asserted at the interruption; DC Low will follow a minimum
of 5 milliseconds after AC Low. (See power-down protocol
Section 5.3.) The delay from power interruption to AC low
increases with higher line voltage (either range) and
lighter loads.

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#### 2.1.11 Efficiency

The ratio of output DC power at the power supply terminals to the input real power shall be 0.65 minimum taken at 5V/60A in either input voltage range. This ratio may degrade to .60 when other outputs are loaded.

#### 2.1.12 <u>Input Over/Under Voltage Conditions</u>

Undervoltage: The power supply is capable of withstanding any undervoltage condition for any duration without damage or degradation.

Overvoltage: The power supply is capable of withstanding an input overvoltage of 150 VAC (RMS (low voltage range)) or 300 VAC (RMS) (high voltage range) for one second maximum without sustaining any internal damage or degradation. The outputs are protected from overvoltage (within crowbar range) under these conditions. Overvoltage in excess of this may be damaging to the power supply.

#### 2.1.13 Input Line Noise Susceptibility

#### 2.1.13.1 Transients

Note: A spike is defined as a voltage transient, of either polarity and of either common or differential mode, with a rise time (10% to 90%) of 0.1 micro-seconds or less and a fall time (to 10%) of 10 micro-seconds or more. The average power of spikes shall not exceed 0.5 watts. They may occur at any phase value of the input AC, adding to the instantaneous value.

#### 2.1.13.1.1 Low Energy Transients

In accordance with DEC-STD-102.7 Rev C.

## 2.1.13.1.2 High Energy Transients

In accordance with OEC-STO 102.7 Rev  $\underline{C}$ .

### 2.1.13.2 Conducted Noise

In accordance with DEC-STO-102.7 Rev C.

 $\frac{\texttt{SIZE}}{\texttt{A}} \ \frac{\texttt{COOE}}{\texttt{SP}} \ \frac{\texttt{NUMBER}}{\texttt{H7202-B-0}}$ 

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## DIGITAL EQUIPMENT CORPORATION

## 2.2 Output Specifications

This power supply has a fixed 5.1V output on the major board with remote sense capability. Other outputs are provided from the regulator cards. These outputs are regulated at the card. (See Table I.)

## 2.2.1 Output Voltages (Table 1)

For all outputs, The "Total Tolerance" is the root-sum-squared of errors due to:

Initial Toleranoe Dynamic Voltage Limits Line/Load Changes Over Specified Range Long Term Stability (1000 hours) Temperature Drift Ripple

The "Total Static Tolerance" is the root-sum-squared of errors due to:

Initial Tolerance
Line/Load Changes Over Specified Range
Long Term Stability (1000 hours)
Temperature Drift

## 2.2.2 Output Current (Table 1)

The minimum and maximum currents for each output are specified in Table 1. Where minimum loads are given, it indicates a minimum loading level necessary to keep other outputs within that channel grouping within regulation.

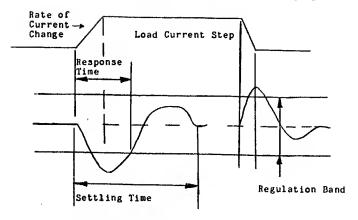
## 2.2.3 Wattage

The maximum wattage from each output is the product of the max rated current and the sum of the rated voltage and the total tolerance. The maximum power obtainable from combining all output powers in any application must be limited to 400 watts.

| SIZE | COOE | NUMBER | REV | A TW

#### OIGITAL EQUIPMENT CORPORATION

#### FIGURE 2.1 OYNAMIC RESPONSE TIME



#### 2.1.13.2 Radiated Noise

In accordance with DEC-STD-102.7 REV  $\underline{C}$ .

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## 2.2.4 <u>Line/Load Regulation</u>

Table 1 shows the maximum deviation of each output for gradual line and load changes. The line voltage range for this parameter is the full range specified in 2.1.1. The load current variation is from minimum load to maximum rated load as specified in Table I. Gradual change is defined for this purpose as covering the range in more than one second.

## 2.2.5 <u>Noise</u>

Table 1 shows the maximum peak to peak noise which is present on each output. Noise must be measured at the output terminals of the power supply. The noise voltage is superimposed on the ripple voltage. Noise is defined as repetitive disturbances at a frequency greater than 170 KHZ.

## 2.2.6 Ripple

Table 1 shows the maximum peak-to-peak ripple voltage present on each output at the specified measurement points. The output deviations classified as ripple are repetitive disturbances in the frequency range of 1 Hz to 170 kHz.

## 2.2.7 Dynamic Response Time

Table 1 shows the dynamic response characteristics of each output channel. The load current change, the allowable overshoot/undershoot, the response time and the settling time are specified for each channel. Each channel is to be subjected to a maximum rate of load current change of 0.5 Amperes per microsecond (increasing or decreasing load). The load changes are to occur as a 50% duty cycle square wave at a frequency of 100 hertz max; within the min/max values specified in Table 1. Figure 2.1 shows a typical output wave form and defines all the above mentioned terms.

## 2.2.8 Temperature Coefficient

The maximum temperature coefficient of each output of this supply is +0.02%/oC maximum over the operating ambient temperature range specified in 7.1.1. The measurement of temperature coefficient is to be made at 50% load on all outputs, nominal line voltage and after ten minute warm-up period with proper cooling air flowing.

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## 2.2.9 Short Term Stability

The changes in the voltage at each output during warm-up after the initial turn-on will be less than 0.2% of the output measured. This measurement is made from one second after the supply is turned on until component temperature stability is reached (no later than one hour after turn on). All other parameters and environmental conditions must remain constant during this test.

### 2.2.10 Long Term Stability

The long term stability of each output of the supply is 0.1%/1000 hours maximum when measured under constant line, load and environmental conditions. The conditions must be within the limits called out in this specification.

## 2.2.11 Output Overload Protection

Table I shows the type of current limiting scheme and initiating point (limits) for each output.

The description of each type is below:

Pulsing

In this mode, the output is turned off for some fixed period of time after the initiation point is reached. Upon reactivation of the output, the output current builds; then, if the initiation point is reached again, the output turns off again. The average current in this mode is low, but with higher peaks.

Constant Current

At the initiation point, the output current is held constant and the voltage dropped to a level sufficient to maintain the fixed ourrent level.

Foldback

In this mode, once the initiation point is reached, the voltage is lowered and the output current level also lowered. At a short circuit, the current is approximately 40% - 60% of the initiation point current.

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The current limit on all outputs is configured such that the output will automatically recover to normal operation upon the removal of the overload.

All outputs are capable of operating for indefinite periods of time with short circuits on the output without causing damage or degradation to any portion or component of the supply.

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## DIGITAL EQUIPMENT CORPORATION

	TABLE	I		
	UNITS			
Output Oesignator		#1	#2	#3
Power Channel		1	2	2
Nominal Voltage	V.dc	+5.1	+12.3	+5.1
Rated Current (Max) Minimum Current	A.de A.de	60 0		ote 2) 15.0 ote 3) 2.0 (Note 1)
Total Tolerance Total Static Tolerance Initial Tolerance Static Line/Load	+mV.dc +mV.dc +mV.do	230 150 100	1000 850 500	300 275 100
Regulation Ripple Voltage Noise Voltage	+mV.dc mV (p-p) mV (rms)		675 200 100	250 75 50
Dynamic Regulation I Over/Undershoot (max) Response Time (max) Settling Time	(Figure 2 A mV ms ms	150 1.0 1.5	0.6 500 10 15	3.0 100 1.0 1.5
Current Limit Type	<b></b>	Pulsing	Pulsing	Pulsing
Initiation Point(min/max) Short Ckt Current (max) (max)	A.dc A (RMS) A do	65-75 5 	3-3.5 2.0	16.0/22.0 8.0
Overvoltage Trip Pt. Maximum Voltage	V demax/m V do	in +6.5	+14.5/15	6.5 +5.4/6.0

The minimum load specified for the +5.1 output is required to maintain reg. on the +12.3V output. The 5.1V output will operate at no load but the +12.3V output will be below spec. Note 1:

Max continuous output current for +12.3V output is 3.0 amps. Intermittent currents of up to 6.0 amps may be drawn for several seconds if the duty cycle is kept below 2%. If continuous currents of greater than 3.0 amps are drawn a thermal protection switch will shut the supply down. Note 2:

The minimum load specified for the +12.3V output is required to maintain regulation. If the minimum load is below that specified the +12.3V output can be out of regulation on the high side. If the load falls below 0.75A the 12.3V output can rise sufficiently to cause an overvoltage condition and the module will shut down. See A-SP-H7213, paragraph 2.2.13.

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	TABLE I (		h Range
Output Oesignator		# ¥	#5
Power Channel		3	3
Nominal Voltage .	V.dc	+15.0	-15.0
Rated Current (max) Hinimum Current	A.de A.de	2.0 0	3.0 0.3
Total Tolerance Total Static Tolerance	+mV.dc +mV.dc	580 500	700 630
Initial Tolerance Static Line/Load	+mV.dc	450	550
Regulation Ripple Voltage Noise Voltage	+mV.dc mV (p-p) mV (rms)		275 300 150
Oynamic Regulation: (Figure Current Step Under/Overshoot (max) Response Time	A mV	200	· 3 50
Settling Time	ms ms	0.5 0.5	0.25 0.25
Current Limit Type		Foldback	Foldback
Initiation Point Short Ckt Current (max) (max)	A.dc A (RMS) A dc	2.1-3.0	3.1-4.0  1.5
Overvoltage Trip Point min/m: Maximum Voltage	ax V dc (ma V dc	x) +17.0/19. +21.0	1 -16.7/18.8 -21.0

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## 2.2.12 Overvoltage Protection

All outputs except designator 2, table 1, have a crowbar protective device to prevent the voltage from exceeding the maximum fault voltage level indicated in Table I. The orowbars will be capable of discharging all internal and rated external capacitances. The maximum response time of the protection is 2 microseconds. The maximum voltage is not exceeded during the response time.

All overvoltage fault circuits (crowbars) are latching. The latched=off condition can be reset by removal of AC power for at least one minute or by removal of Power Request and Standby signals (console switch to "off").

### 2.2.13 Output Adjustment

All outputs are fixed with no means of adjustment. Channel 3 outputs are available for  $\pm 15$ V or  $\pm 12$ V. This selection is by choosing a variation of the module.

#### 2.2.14 Output Sequencing

None.

4. .

### 2.2.15 Voltage Margins

There are no margin circuits or capability provided.

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# DIGITAL EQUIPMENT CORPORATION

#### CHAPTER 3 ELECTROMAGNETIC INTERFERENCE

## 3.1 Limits of Equipment Generated Interference

 $\frac{AC}{Compliance}$  with FCC A and VDE A limit is provided by the line filter within this power supply.

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P1 is the inlet connector for Battery Backup Power. It is common with the bulk DC on the major board which is derived from line rectification. It is not isolated from the AC line. Proper cable mounting, shielding and insulation must be exercised when using this input to avoid circumventing the AC line filter and preserve signal integrity in adjacent cables. In systems that are high potential tested, this input is raised to the high voltage.

Note: This input is in common with the internal bulk DC voltage. There is no fusing or limiting provided. High surge and average currents are therefore possible from this interface, as with any 240V line connection.

There is internally stored energy available at this connection for several seconds after power removal following some internal failures. These two terminals must not be short-circuited together or to ground to discharge this energy.

This input is to be used only with isolated BBU units such as the  $\ensuremath{\mathsf{H7240}}$  series hattery converters.

2.3 D. C. Input - Battery Backup Power

# CHAPTER 4 APPLICATION SPECIFICATIONS Input - Voltage Current and Cord Requirements

The input voltage range is selected with a screwdriver operated slide switch on the unit. The inlet connector is a three pin (IEC) connector. A 14 guage three wire cord is required. This cord is not supplied with the power supply. Removal of a small protective cover is required for operation of the line select switch switch.

## Output Voltage, Current and Harness Requirements

The main 5 volt output is available at the connection blocks on the unit. A suitable bus bar or sufficient size wire is required to conduct the current used by the load and restrict the voltage drop to 100 mV between output terminals and remote voltage sense points for each lead, supply and return. Other voltages are available at the backplane connector on the distribution board (see D-IC-H7202). Voltage drops for these are determined by user requirements.

The power supply will operate within all specification limits continuously with any outputs loaded to full rated current, provided total DC output power does not exceed 400W.

## Paralleling Requirements

Operation of this supply connected in parallel with any other power supply is not permissible.

## 4.5 Load Capacitance

The maximum external capacitance added in parallel at the load (for decoupling, etc.) for each output is:

: 500 uf : 100 uf +15V -15V

+5VB : 500 uf These limits are necessary to insure system stability.

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#### 4.6 Load Connection Characteristics

The interconnection circuit from the output to the remote sense attachment points is restricted in inductance and capacitance to assure system stability as follows:

maximum induotance (Normal mode) 50 Microhenries 500 maximum capacitance 250 X 10<sup>-12</sup> 500 Microfarads FARAD-HENRIES

#### 4.7 Remote Sense

The main 5V output has remote sense capability. The maximum sense line length is one meter (each line). A capacitor of 0.1 uF is required at the sense line termination at the load. The sense lines are pin 6 (+) and 8 (-) in connector J2. The power supply output is protected from opening or shorting the sense lines. Crowbar is considered adequate protection for this purpose. Regulation limits are not guaranteed if the sense line resistance from the sense pins to the 5V output exceeds 0.5ohm (each line). In the event of an open sense line, regulation takes place at output assembly on the H7200 power module.

#### 4.8 Battery Back-Up Requirements

This power supply is capable of operating from a battery back-up with a 200V output interfacing with the primary bus, such as the H724O series units. The power supply is capable of operation in this mode for 3O seconds maximum at rated load and temperature without forced air cooling. External forced air is required for operation for longer periods in this mode.

This unit is internally programmed to back up Channel 2 outputs (memory regulator). These are also the "standby" outputs (See Table I and 5.2.2).

## 4.9 Return Wire Voltage Offsets

The return lines for each power channel must be connected together externally for normal, safe operation. This is normally done at the load. In such cases, the difference in return wire voltage drops due to distribution losses must be less than 350 mV for any combination of two of the three power channels. This is necessary to prevent shortening the life of the internal ground isolation resistors between the power channel control oircuits.

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A SP H7202-B-O A

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## DIGITAL EQUIPMENT CORPORATION

## 5.1.3 Line Clock Signal

This signal is a timing reference at the frequency of and synchronous with the AC line. Its waveform is a square wave of approximately 50% duty cycle. Its source is an open-collector transistor sinking 20 mA. with 0.4V maximum in the low state and high impedance in the high state. High state maximum applied voltage is 15V, minimum impedance is 100 K ohms. The return lead is common with DC low (See Figure 5.1).

## 5.1.4 Battery Back-Up Enable

This signal when true (high state) asserts that a valid BBU condition exists in the power supply. This enables the BBU unit to assume the "ready" state which permits fast response to a power fail condition through the BBU request signal (para. 5.1.5).

When false, a non valid condition is indicated such as thermal shutdown or output failure. This allows the BBU unit to assume the "Off" state which does not allow fast response and permits minimum battery drain. A transition from True to False while BBU unit is supplying power, terminates the backup condition, removing power.

Electrical Characteristics:

True (high state): A voltage source of +12V (10.5 min, +14.5 max) at 10 mA. max eurrent.

False (low state): High impedance source of greater than 100 K-ohms to +14.5V maximum.

## 5.1.5 Battery Back-Up Request

This is a momentary indication of a drop in the bulk OC power input to the power stages indicating input AC has dropped. This signal is asserted simultaneously with AC low but is de-asserted when the bulk DC is increased due to the input of battery derived power (See figure 5.4). The minimum assertion time is greater than 1 millisecond.

Electrical Characteristics are the same as Battery Back-up Enable (para. 5.1.4).

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#### DIGITAL EQUIPMENT CORPORATION

#### CHAPTER 5 SIGNAL SPECIFICATIONS

#### 5.1 Output Signals

#### 5.1.1 DC Low

This signal when asserted (low state) indicates that the dc voltage at the input bus is not adequate to maintain regulation of the outputs, and that output OC power is about to drop. All outputs will remain in regulation for 1 millisecond minimum after this signal is asserted.

The output signal is provided on two lines leading to an ungrounded (floating) FET. On power turn-on this signal is asserted until regulation is reached.

Electrical Characteristics:

Asserted (low) - Capable of sinking 50 mA. at 0.4Vmax.

Un-asserted (high) - Output impedance of 100 K ohms min, 15V maximum applied voltage.

#### 5.1.2 AC Lou

This signal when asserted (low state) indicates that the dc voltage at the input bus is at or near the value necessary to guarantee the 5 mS. hold-up prior to DC low. This value is below the specified line voltage but above the minimum required for regulation. When un-asserted (high) this signal indicates adequate input voltage.

On power turn-on this signal is asserted until after DC low is de-asserted. On power turn-off this signal is asserted 5 milli-seconds minimum prior to DC low (See Figure 5.2, 5.3).

Electrical characteristics are the same as OC low (see 5.1.1). The return lead (FET source) is common with DC

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## 5.1.6 Boot Enable

This signal is valid on power up between de-assertion of DC low and AC low. When true (high state) it indicates that memory voltage(s) had been good and uninterrupted since assertion of DC low on power down. When false (low state) it indicates that memory voltages had been interrupted. Electrical characteristics are the same as OC low.

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#### 5.2 Input Signals

#### 5.2.1 DEC Power Bus

The power supply responds to these two signals (Power Request and Total Shutdown) in accordance with DEC STD 123.

All outputs are inhibited until this signal is pulled low externally, except for the Standby mode. Power Request:

Total Shutdown: All outputs are inhibited whenever this signal is pulled low externally. This signal overrides all other

signals.

Normal output signal and power output sequencing per section 5.3 occurs when these signals are used.

#### Standby (Console Signal) 5.2.2

This input enables the "Standby" outputs when pulled low externally. It overrides Power Request but not Total Shutdown. "Standby" is internally programmed to be the "Channel 2" outputs (memory regulator) (See Table I).

Low State (asserted):

Less than 1.0V Source Current is -1.0 mA. max.

High State (unasserted): Greater than 10V,

Sink current: 1 uA. max.

#### 5.2.3 **Module Enable**

This signal when asserted (low state) indicates that primary power is coming from the battery converter. This signal forces a "standby" state by internally de-asserting power request. This shuts down the Channel 1 and 3 outputs. An AC Low - DC Low sequence precedes the fall in actual DC output. See figure 5.4.

Electrical Characteristics:

Low State (asserted):

External low impedance to power supply return capable of sinking 3 mA. minimum with a max. voltage of 1 Volt.

High State (unasserted): High impedance, capable of blocking +15 V with 1 micro amp max. lcakage.

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SIZE CODE NUMBER NT7202-B-0

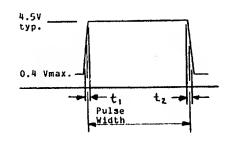
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# 5.3 Power-Up/Power-Down Sequencing

See Figure 5.2 for sequence of signals and events oon power-up and

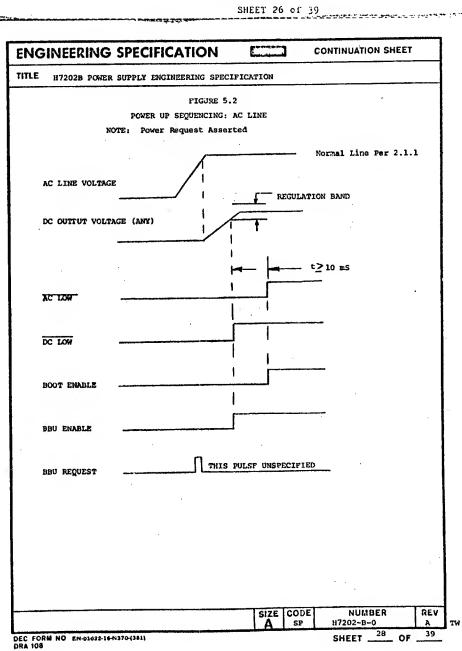
FIGURE 5.1 LINE CLOCK SIGNAL



Pulse width approximately 1/2 line cycle: 50Hz line 10 ms. 60Hz line 8.3 ms.

t1, t2 < 200 ns

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AIR FAULT:

5.2.4

This signal is a shutdown input with internal latch intended for use with external environmental sensors. It consists of a pull-up line and fault signal which must be connected together externally to permit normal operation (see Figure 5). When the AIR FAULT line is pulled low to P.S. return, all DC power is removed after an AC low - DC Low sequence. An internal latch is also set, holding this condition until Power Request and Standby inputs are de-asserted ("Key OFF"). Under default conditions with both lines open, the Power Supply will not operate.

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The minimum fault assertion time to guarantee a latch is 100 microseconds.

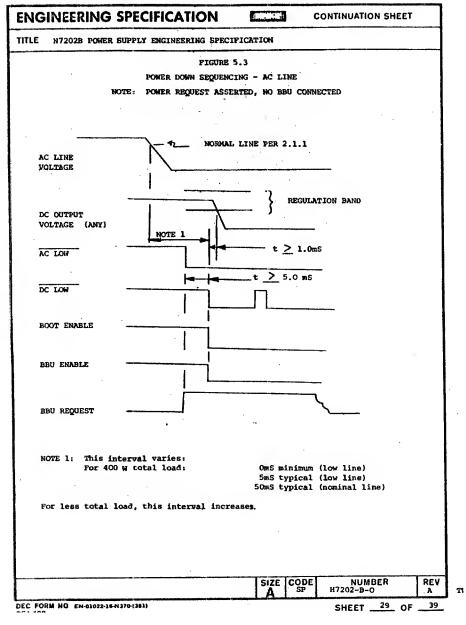
Note: Electrical Characteristics apply when "pull-up" and "fault" are connected together.

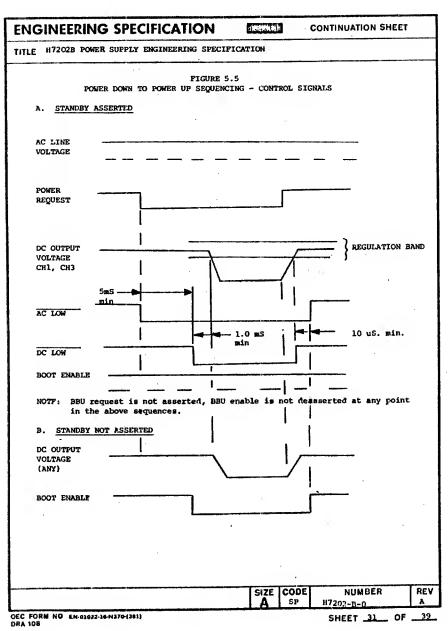
Electrical Characteristics:

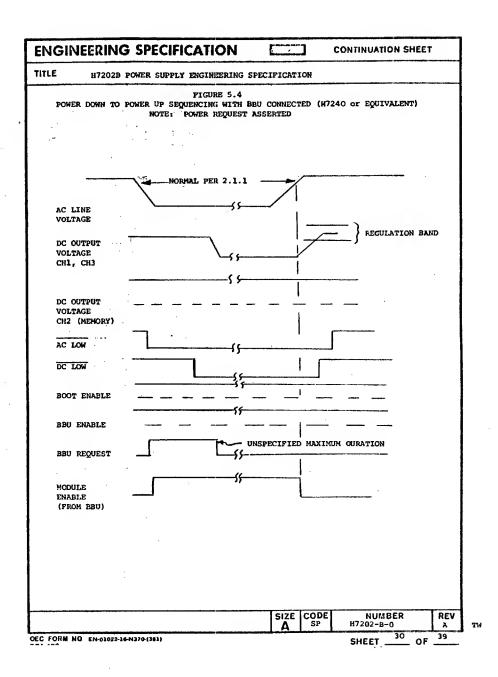
Asserted (low state):

Low impedance to P.S. return capable of sinking 10 mA. with a maximum Voltage of 1 Volt.

Unasserted (high state): High impedance capable of blocking 15 VDC with a max. leakage of 1 Microamp.







## 5.4 Status Indicators

Three red light emitting diodes indicate the status of each of the three power channels. These are visible through the connection access cover and labeled. Each LED will be on when that channel is on and outputs are within normal range.

Labels are as follows:

Main +5V OK (Channel 1)
Memory Power OK (Channel 2)
Com. Power OK (Channel 3)

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#### CHAPTER 6 MECHANICAL AND PHYSICAL SPECIFICATIONS

Size

The overall dimensions are 5  $\times$  6.25  $\times$  21 inches nominal, conforming to the dimensions shown in Figure 6.1.

The power supply with housing has a maximum weight of 8.2 kilograms (181bs).

6.3 Mounting

Through threaded inserts comptaible with BA11-H and BA11-Z boxes .

Externally supplied forced air at 400 linear feet per minute (20 m/s) is required to properly cool this unit when operating at full load and max. temperature. Volume requirement is approximately 80 cubic feet per minute. A suitable air filter is required to prevent dirt accumulation inside the unit. (See 7.6)

Thermal Protection

The power supply is self-protecting against the loss of adequate cooling air or excessive temperature by internal temperature switches which shut down the power supply. This sets an internal latch which is externally reset by de-asserting both power request and standby inputs (console key to OFF).

Accessibility

6.6.1 Connections:

All power and signal connections are available at the rear of the unit. A protective clear cover must be removed to access many of the power and signal connectors.

6.6.2

To access the working internal modules, the input power connector P2 must be disconnected to allow the top cover to be removed. This disconnects all HV power from the input harness. Channel 2 and 3 power modules may be removed at this point.

To remove the H7200 power module, the AC input panel must be removed, as well as the mounting screws on the bottom of the unit as well as the high current cables.

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#### 6.7 Identification Stickers

Special markings or compliance stickers are placed on the outside of the housing near the circuit breaker access, adjacent to the AC inlet connector and on the top cover.

#### Input/Output Connectors

#### 6.8.1 Line Interfaces

Interfaces at AC Line potential (AC input line, battery back-up power) are through connectors in the chassis at the rear of the unit. AC line input is directly into the line filter.

6.8.2 Main Output

5V, 60A output is through screw and insert connections on the rear side corners. Interface to the load is then through flex-print (wire could also be used).

6.8.3 Other Interfaces

> All other interfaces are from connectors on the distribution board under the rear protective gover. Interfaces included are:

- Backplane (by flexprint) includes DC power other than 5V/60A, and processor signals. (J2)
- Fan: Power for DC fans and signals to and from air flow sensor.  $\label{eq:constraint} % \begin{array}{c} \left( \frac{1}{2} \right) & \left( \frac{1}{2} \right)$ (J3)
- Fan: Power for additional DC fan. (J7)
- Battery Back-up: Signals to Battery Back-up (J4)
- DEC Power Bus. (J6)
- (J1) Console - Control zignals.

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# DIGITAL EQUIPMENT CORPORATION

## 6.8.4 DEC Power Bus

These signals are carried out from the distribution board (J6) to the chassis where the standard 3 pin connector is accessible.

PACKAGING

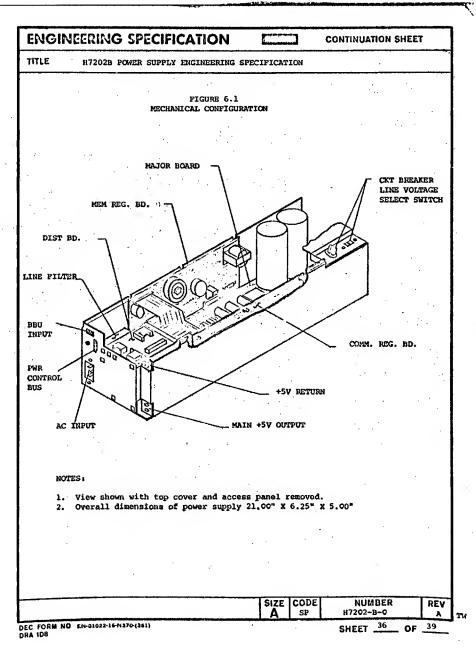
6.9

Shipment of this unit requires that proper containers be used:

bulk shipment single unit shipment

3700635-00 3700635-01

(See A-SP-3700635-0-0)



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CHAPTER 7 ENVIRONMENTAL SPECIFICATIONS

General:

In compliance with DEC STD 102, rev C class C.

7.1 Temperature

7.1.1 Operating Ambient Temperature Range

5 C to 55 C (intended for use in equipment rated DEC-STD 102, Class C).

7.1.2 Storage Temperature Range

-40 C to + 70 C.

7.2 Humidity

Per DEC Standard 102, Class C, Paragraph 3.0.

7.3 Altitude

7.3.1 Deerating Limit

22.2 in ilg. (8,000 ft).

7.3.2 Storage Limit

8.9 in. Hg. (30,000 ft.).

**Vibration** 

Per DEC Standard 102, Class C, Paragraph 6.0.

Mechanical Shock 7.5

Per DEC Standard 102, Pargraph 5.D.

Dirt Protection

An external filter for cooling air is required to prevent interanl dirt accumulation. This is necessary to preserve the integrity of the insulation systems.

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CHAPTER 8 RELIABILITY

8.1 Life Expectancy

The design goal for life expectancy is 1D years.

Mean Time Between Failure

The deisgn HTBF is greater than 27,000 hours based on a parts count calculation and data from MIL-HBK-217B and DEC STD 139,

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## DIGITAL EQUIPMENT CORPORATION

CHAPTER 9 SAFETY

The power supply as specified herein shall be UL recognized, CSA certified and comply with DEC STD 119 REV C.

9.1 Electrical

The power supply and its application (including battery back-up) shall be listed per UL-478-Electronic Data Processing Units and Systems and meet UL 1012 - Power Supplies.

The power supply and its application (including battery back-up) shall meet the following safety codes:

CSA C22.2

No. 154 Canadian Electrical Code, Part II, Safety Standards for Electrical Equipment.

VDE D8D4

Regulations for Telecommunication Apparatus including Information Processing Equipment.

IEC 435

Safety of Data Processing

Equipment.

Regulatory Bodies

See DEC Standards 6D and 119.

9.3

See Section 2.1.7 of this specification. Refer also to DEC Standards 60 and 119.

9.4 Grounding

The ground wire (green/yellow stripe) is connected to the power supply frame, housing and sheilds. The 5V return lead is internally connected to the chasses and ground wire.

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SHEETS 5 THRU 10 "C" SIZE

PACKAGING INSTRUCTION

2.

3.

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PACKAGI	NG IN	STRUCTION		REV: DATE:			
TITLE PKG PO	WER SU	PPLY H7202/H720	0/H7211/H <b>72</b> 13				
		LEGEND					
VARIAT	ION	USED_ON	PACKAGE TYPE	REMARKS			
370063	5-01	H7202	CUSTOMER				
370063	5-02	H7202	INTERPLANT	BULK			
370063	5-03	H7200	CUSTOMER				
370063	5-04	H7200	INTERPLANT	BULK			
370063	5-05	H7211/H7213	CUSTOMER				
370063	5-06	H7211/H7213	INTERPLANT	BULK			
*		PARTS LIST 3700 R TO OFF-SHEET		H 3700635-06 L-3700635-0-OBP			
			NSTRUCTIONS 370	00635-01			
1.	STEP PROCEDURE FIGURE 1  1. WRAP THE FIVE PANEL FOLOER (9906851-00) AROUND THE H7202-B POWER SUPPLY AND TAPE IT WITH CARTON SEALING TAPE (9905729-00).						
2.							
3.	(1)		N SEALING TAPE	(9906849-00) USING ONE E ALONG THE LENGTH AND			
4.		TION THE PRE-P OVERLAP CARTON		POWER SUPPLY INTO THE			

CLOSE AND SEAL THE FULL OVERLAP CARTON USING ONE (1) STRIP OF CARTON SEALING TAPE ALONG EACH SIDE.

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CHEET 1

**CONTINUATION SHEET** 

will- APPD gean Bernet A PA 3700635

TITLE PKG POWER SUPPLY H7202/H7200/H7211/H7213 PACKAGING INSTRUCTIONS 37000635-04 STEP PROCEOURE FIGURE 4 WRAP THE DIE CUT CARTON (9906853-00) AROUNO THE H7200 POWER SUPPLY AND TAPE WITH CARTON SEALING TAPE (9905729-00). ı. SQUARE AND SET UP THE HALF SLOTTED CARTON (9906856-01) USING ONE (1) STRIP OF CARTON SEALING TAPE OOWN THE CENTER AND EXTENDING IT THREE 93) INCHES OOWN EACH SIDE; POSITION IT ONTO THE GENERAL PURPOSE PALLET (9906199-00). 2. FIT THE GLUED TUBE (9906856-04) INTO THE HALF SLOTTED CARTON. 3. PLACE TWO (2) MOLDED FOAM PADS (9990015-00) INTO THE HALF SLOTTED CARTON. ARRANGE EIGHTY-EIGHT (88) H7200 POWER SUPPLIES, PRE-WRAPPEO PER STEP ONE, PER PALLET PATTERN CONFIGURATION. FIT THE TELESCOPE CAP (9906856-02) ONTO THE HALF SLOTTED CARTON. STRAP THE TELESCOPE CARTON ASSEMBLY TO THE PALLET USING TWO (2) POLYESTER STRAPS (9905734-00). 7. PACKAGING INSTRUCTIONS 3700635-05 PROCEDURE FIGURE 5 STEP OPEN THE ALREADY SET-UP DIE CUT CARTON WITH CONVOLUTED FOAM (9906858-00).

PLACE EITHER THE H7211 OR H7213 POWER SUPPLY (COMPONENT SIDE DOWN) INTO THE OIE CUT CARTON WITH FOAM.

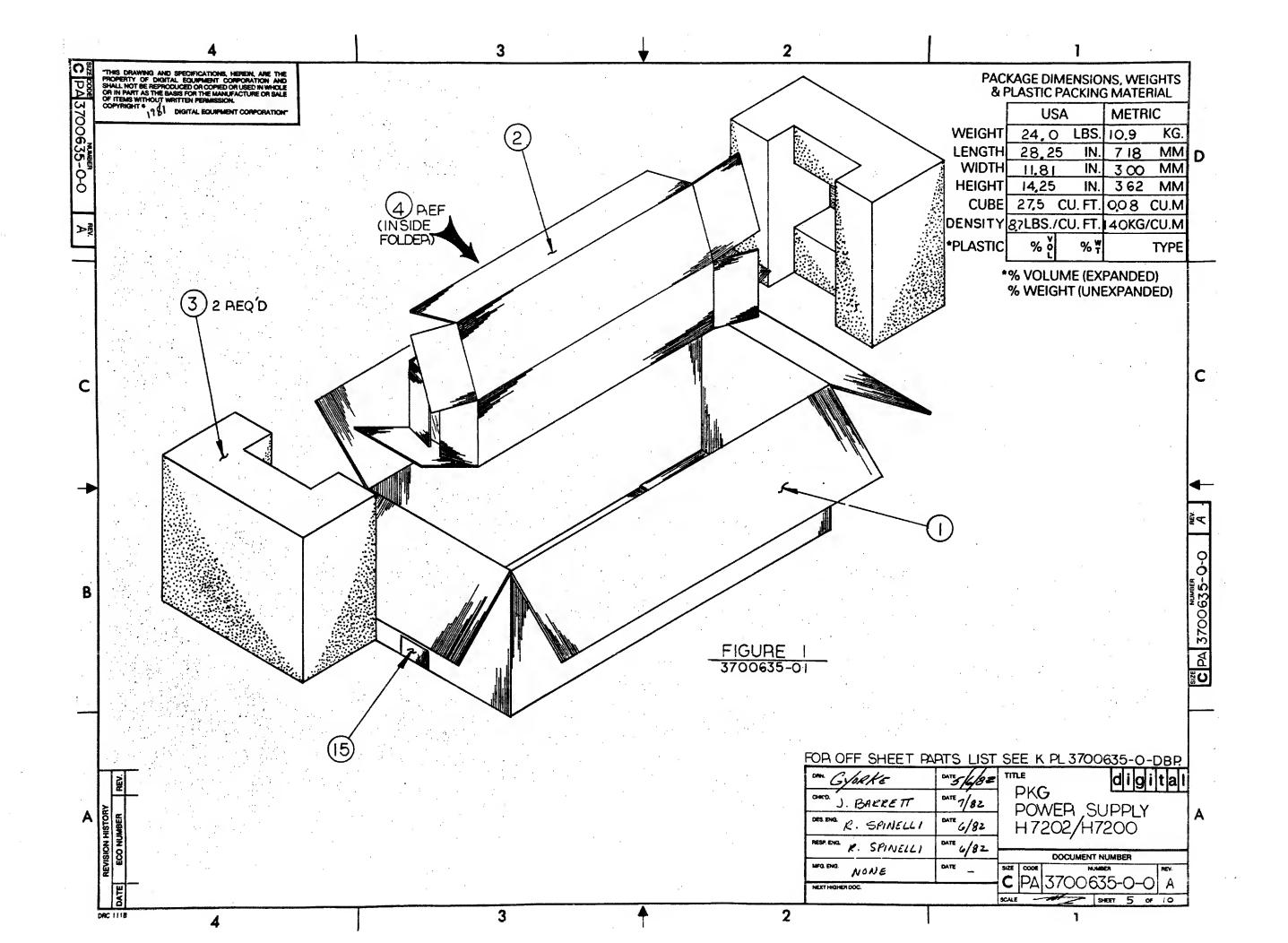
CLOSE THE SELF-LOCKING DIE CUT CARTON WITH ALL FLAPS INSIDE.

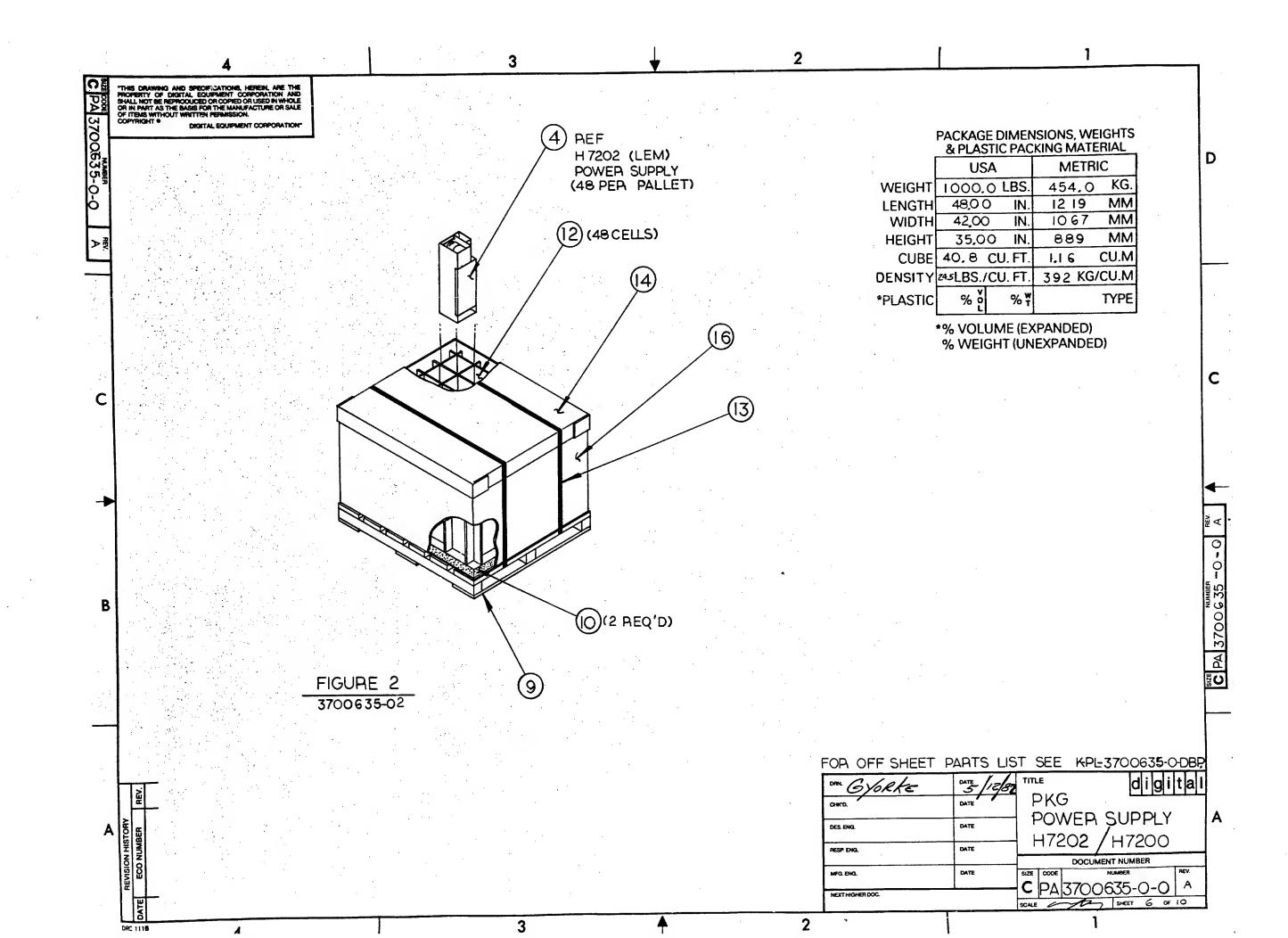
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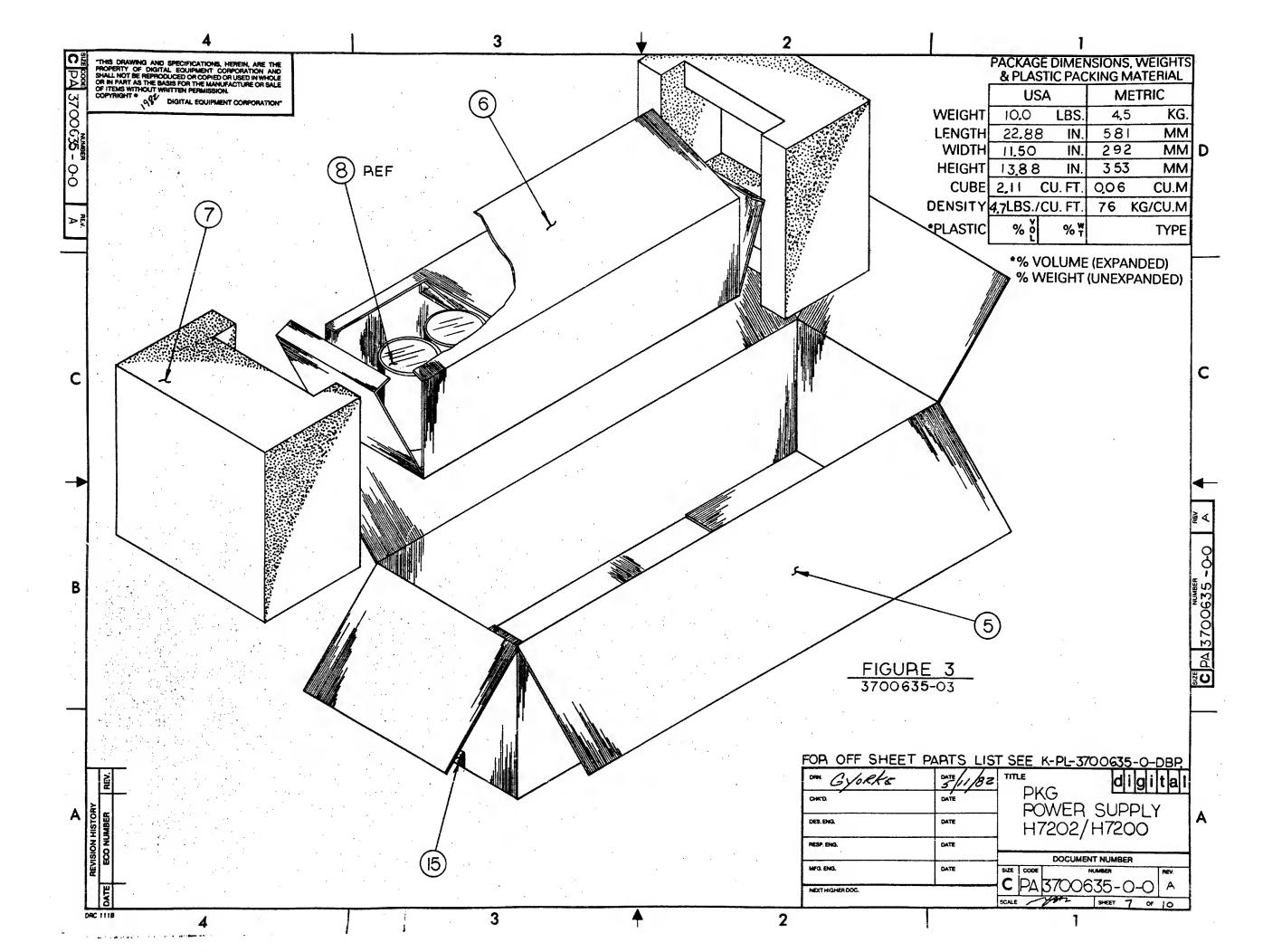
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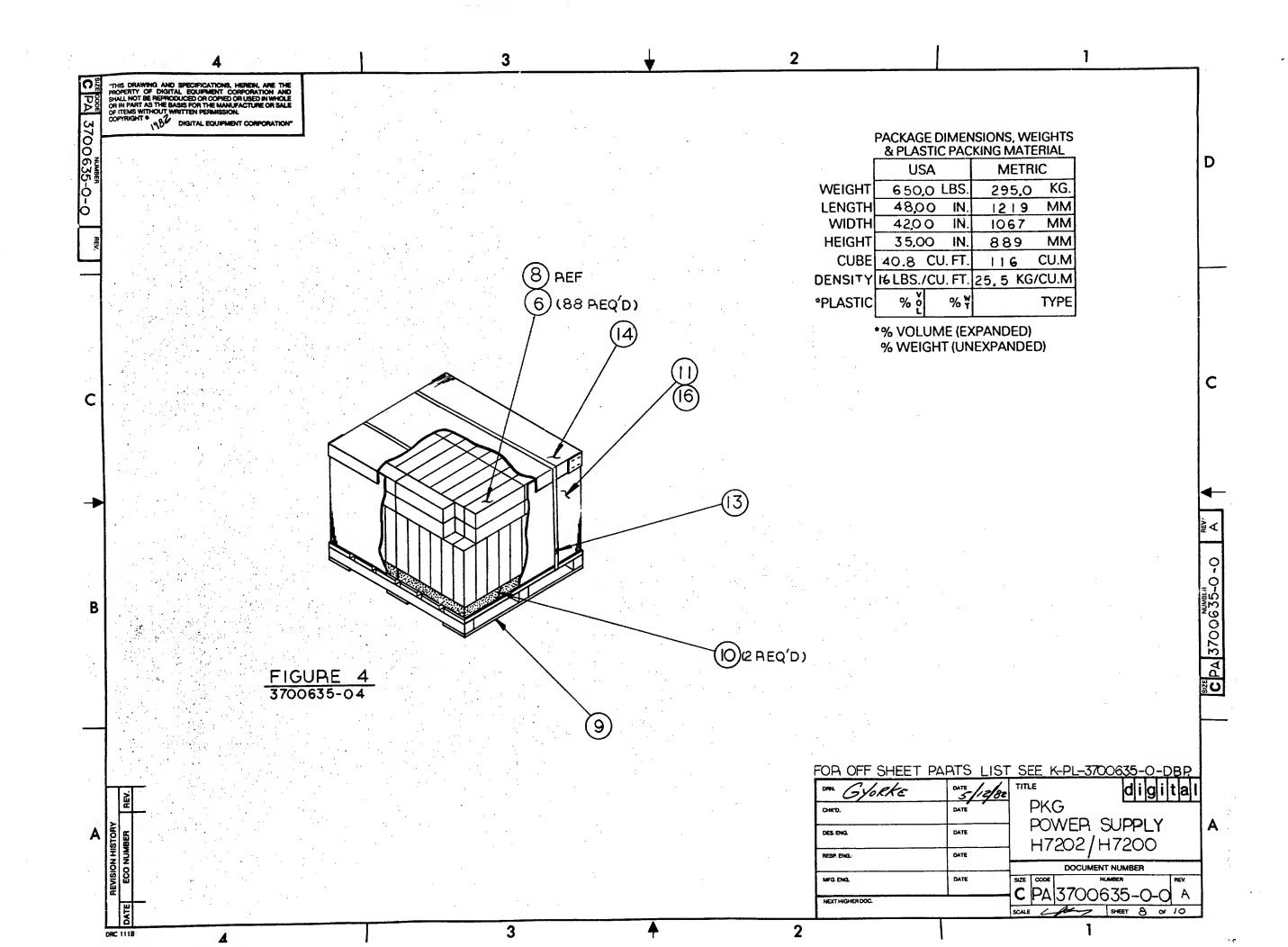
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,		
* 7	PACKAGING INSTRUCTIONS 370	0635-02
STEP	PROCEDURE TIGURE 2	
1.	SQUARE AND SET UP THE HALF SLOTTED USING ONE (1) STRIP OF CARTON SCENTER EXTENDING THREE (3) INCHES POSITION IT ONTO THE GENER (9906199-00).	EALING TAPE DOWN THE DOWN EACH SIDE, AND
2.	FIT THE GLUED TUBE (9906856-04)	INTO THE HALF SLOTTED
3.	AFTER SETTING TWO (2) MOLDED FOAM THE HALF SLOTTED CARTON, ARRANG NESTED DIVIDER (9906856-03) INTO TO	SE THE ASSEMBLED AND
4.	INSTALL THE H7202-8 POWER SUPPI DIVIOER CELLS (48 TOTAL), MAKING SI IS ON THE TOP.	LY INTO EACH OF THE URE THAT THE CAPACITOR
5. Top	PLACE THE TELESCOPE CAP (990685 SLOTTED CARTON.	6-02) ONTO THE HALF
6.	STRAP THE TELESCOPE CARTON ASSEMBL TWO (2) POLYESTER STRAPS (9905734-	
	PACKAGING INSTRUCTIONS 370	0635-03
STEP :	PROCEDURE FIGURE 3	
1.	WRAP THE DIE CUT CARTON (9906853-POWER SUPPLY AND TAPE IT WITH (9905729-00).	
2.	INSTALL A MOOLED FOAM PAO (9990012 THE DIE CUT CARTON.	2-00) ONTO EACH END OF
3.	SET UP THE FULL OVERLAP CARTON ( (1) STRIP OF CARTON SEALING TAPE ONE (1) STRIP ALONG EACH SIDE.	
4.	POSITION THE PRE-PACKED H7200 POWE OVERLAP CARTON.	R SUPPLY INTO THE FULL
5.	CLOSE AND SEAL THE FULL OVERLAP STRIP OF CARTON SEALING TAPE ALON (1) STRIP ALONG EACH SIDE.	NG THE LENGTH AND ONE
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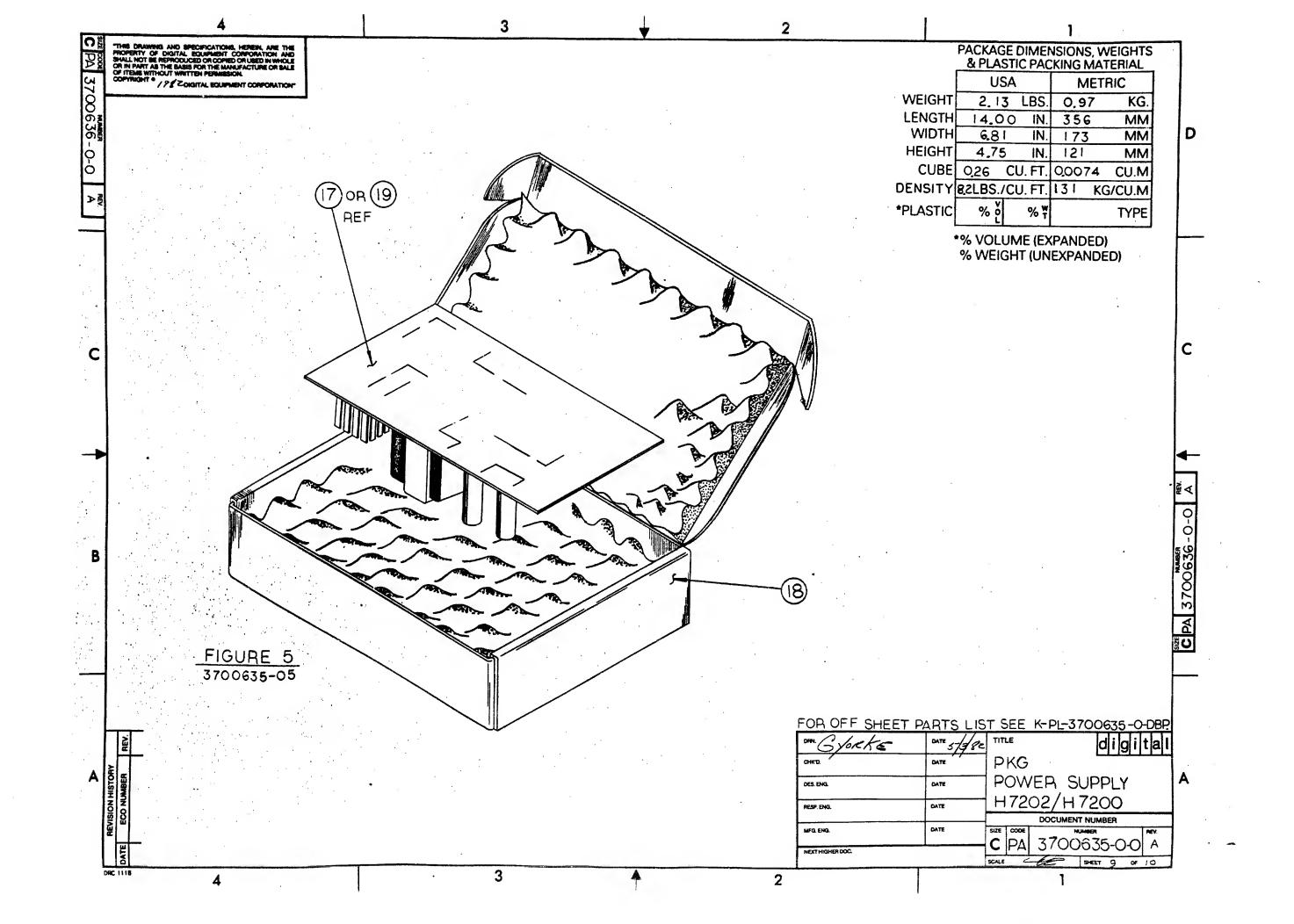
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			PACKA	GING II	NSTRU	CTION	S 3700	0635-06			
	STEP		PROCE	DURE F	GURE	6				,	
	1.	ONE (2)	ENERAL 1) 3 X .Let coi	7 PRE-	PACKE	O H72	(9906 11 OR	199-00) H7213	PLACE POWER S	TWENT UPPL1	FY- IES
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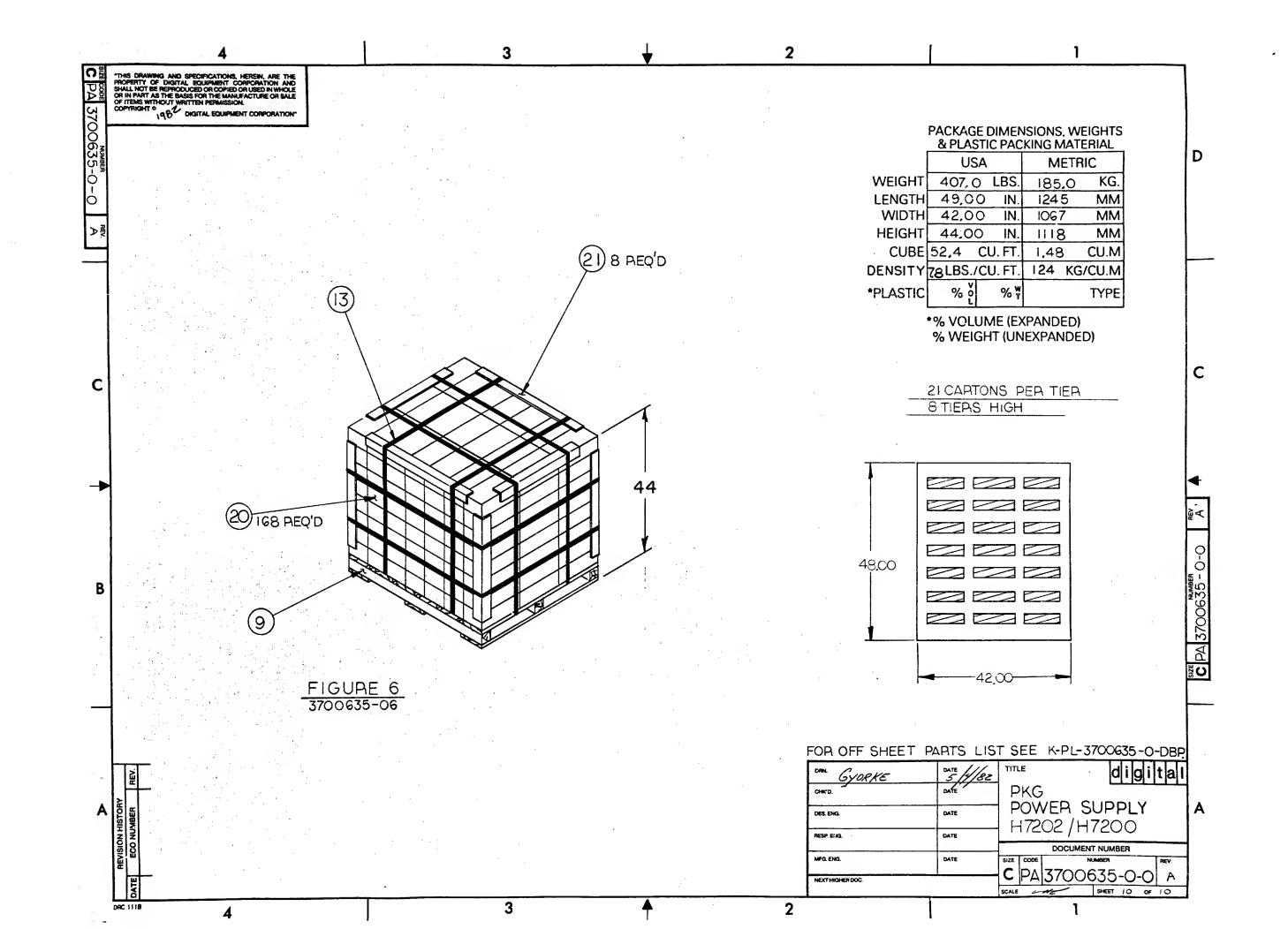


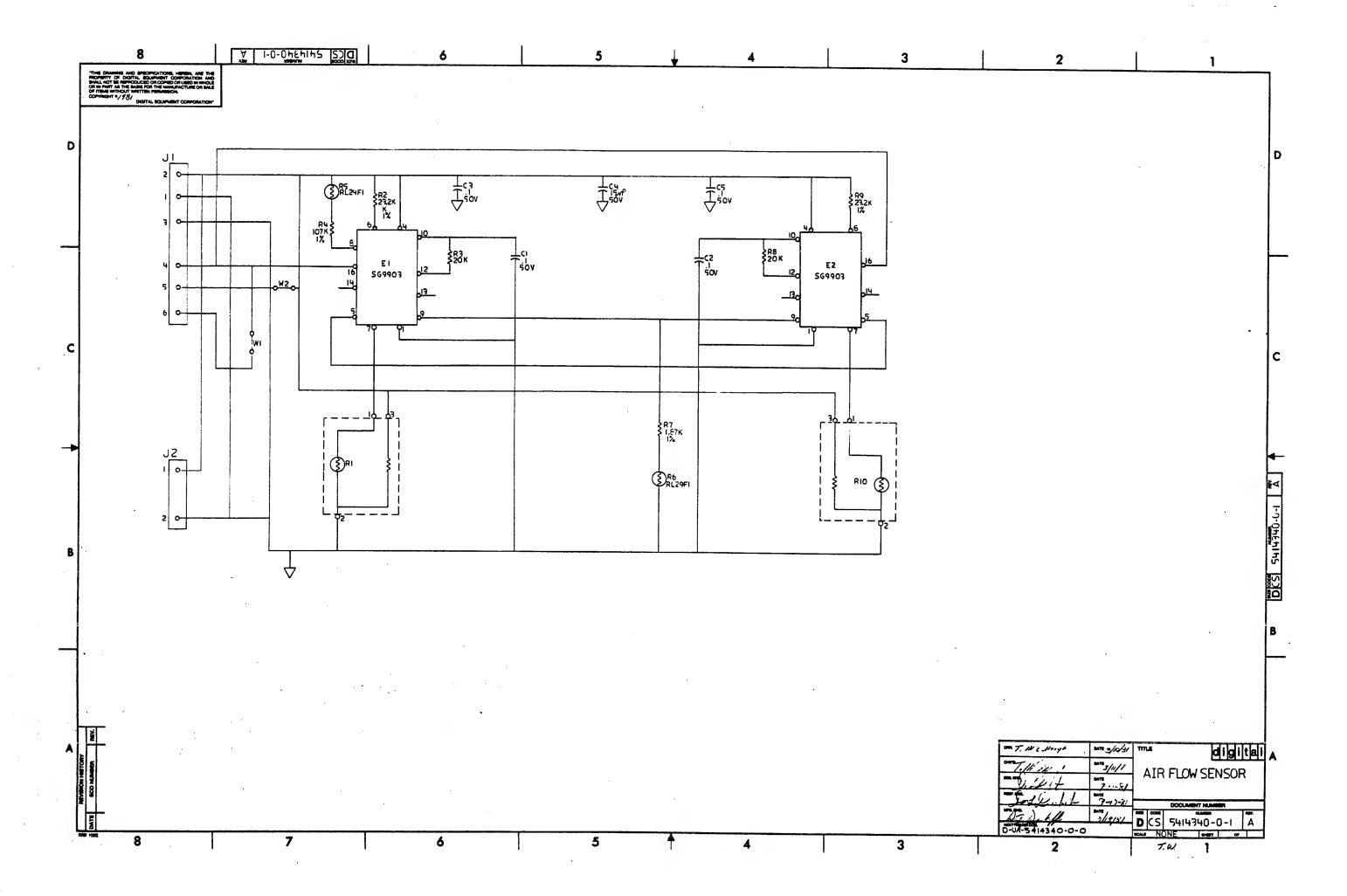


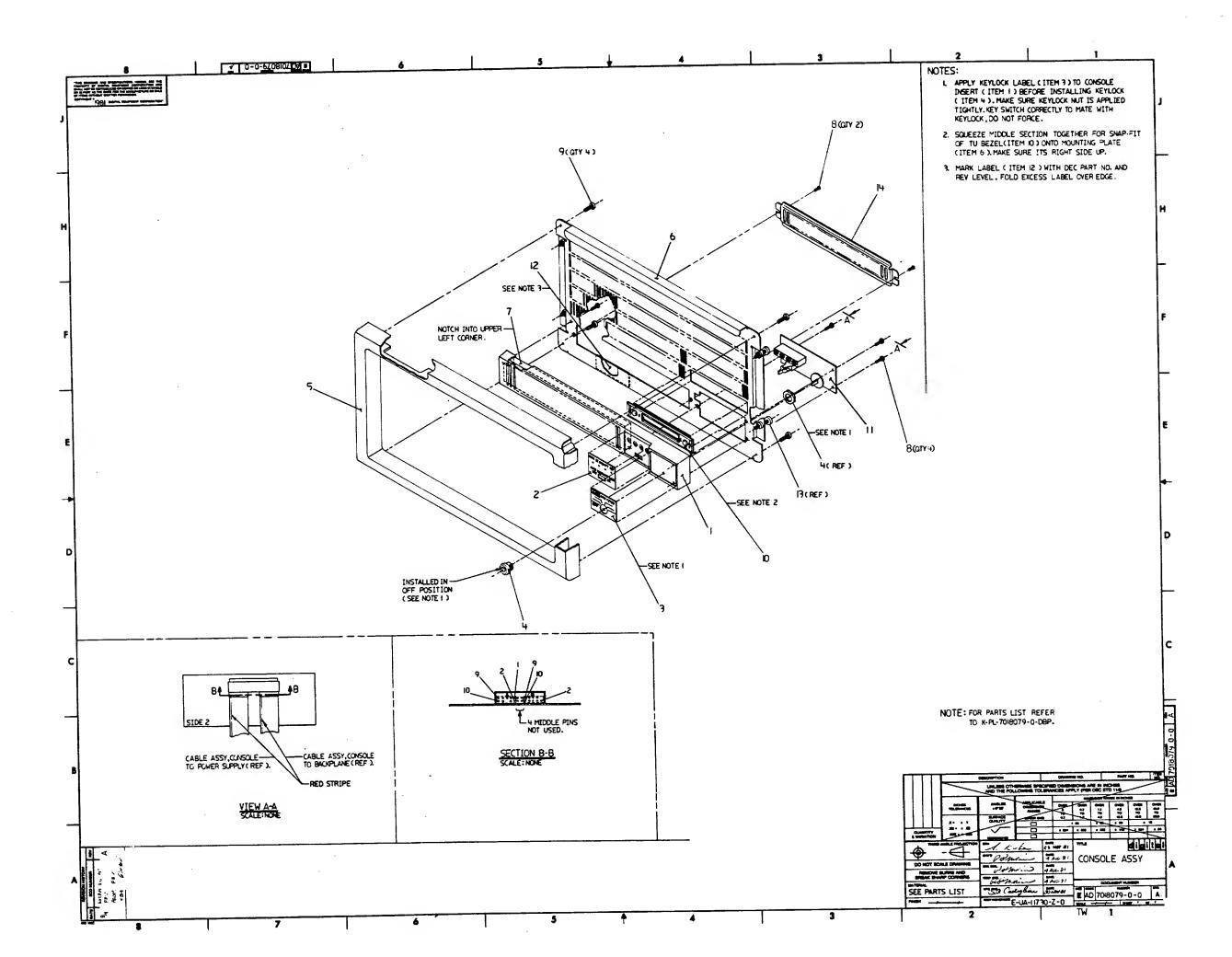








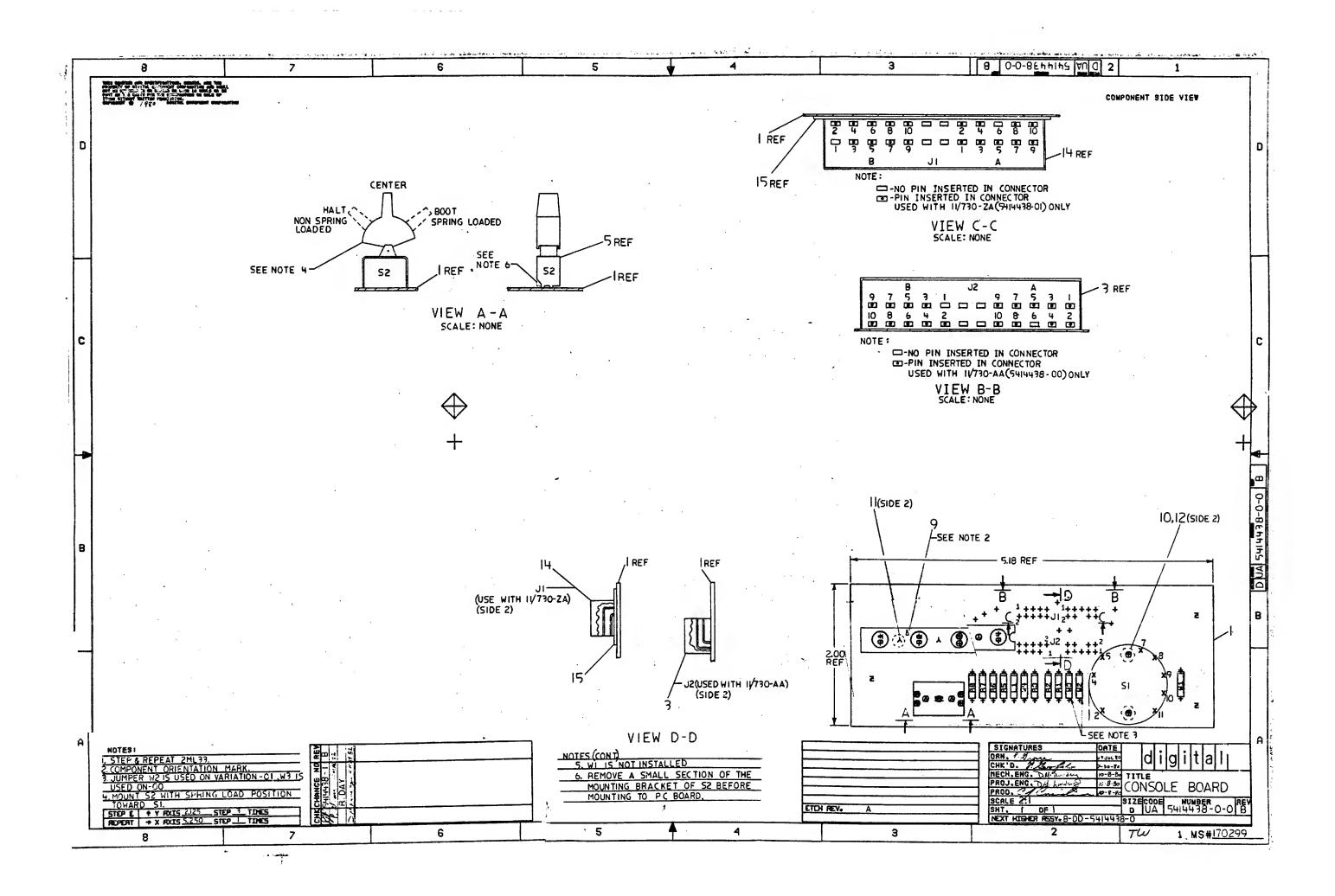




AUTOMATED BY PRILST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST	QUANTITY PER VARIATION OO	SHEET A1 OF A1
1 E-IA-7424269-0-0 2 A-PS-3617322-0-0 3 A-PS-3617902-0-0 4 A-PS-1217094-0-0 5 E-PS-1217094-0-0 6 F-IA-7424832-0-0 7 A-PS-1217665-0-0 8 9 10 10 C-IA-7018168-0-0 11 12 13 13 14 D-MD-7426334-0-0	7424269-00 3617322-00 3617302-01 1216178-01 1217094-00 7424832-00 1217665-01 9010119-00 7018168-00 5414438-01 9009255-01 9006075-03 7426334-01	CONSOLE INSERT LABEL, LEGEND STRIP VAX 11/730 LE LABEL, LEGEND STRIP VAX 11/730 6P LOCK, PLASTIC 6POS ASSY BEZEL, PLASTIC 11-44 PLATE, MTG 10-1/2 FILTER, FOAM 11.5X1.85X1/2 5PPI SCREW, SEMS, PHILLIPS PAN HD. 6- SCREW, PHILLIPS TRUSS HD. 10-32 TUSB DUAL DRIVE BEZEL ASSY CONSOLE MODULE LABEL, POWER SUPPLY, 2-7/8" LG X SCREW, TRUS, PHIL, 10-32X 3/4 SHIELD	REF 1	

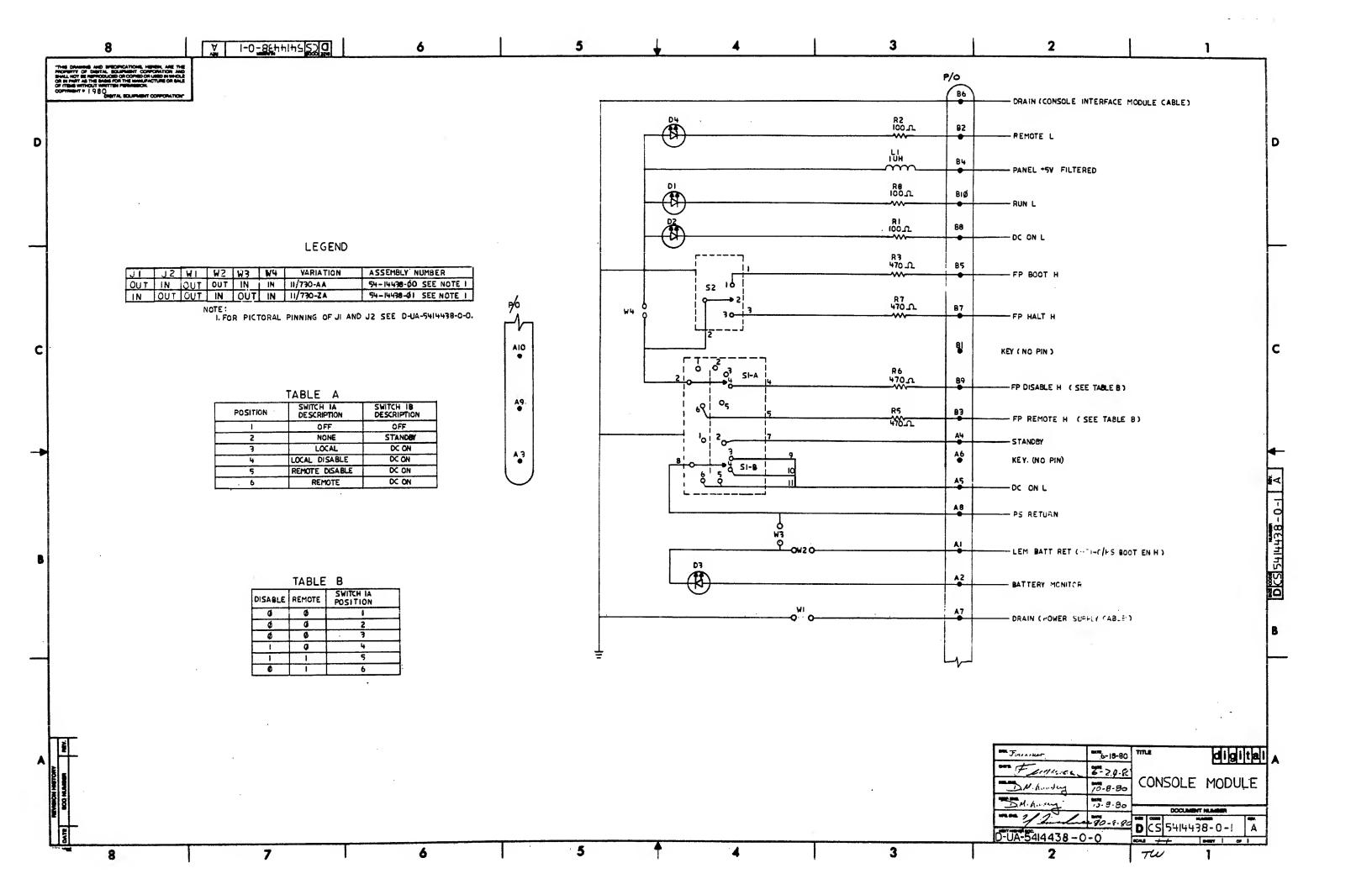
1 ++++	REVISION HISTORY	++++ ++++	BASIC PART NO: 7018079	DRN:	+++	TOURTONONT	+++++ !	++++++++	+++++	++++	+++++++	+++++++	++++++
ENG	ECO NUMBER	!REV	SECTION A OF A	+++++++	+++	TOUSIGNANT	++++	30-JUL-81	+!+++	++!+	- I G	! I ! T !	ALL
	INITIAL INITIAL	XA	SECTION. VARIATION INDEX	CHK'D:	A.	ROCHA	DATE:	30-JUL-81	TITL	_	PARTS		
	AITETANE			;		-++++++++	++++	++++++++	- <b>:</b> co	NSOLE	ASSEMBLY		į
	·			DES.ENG.:	R. ++++	MORIN	DATE:	30-JUL-81	.i .i				
	·		[0]	RESP.ENG.:	R.	MORTN	DOTF.	30-JUL-81	1	******		NUMBER	++++++!
			[0]	++++++++	+	+++++++++	+++++	-+++++++	SIŻE	CÓDE	NUMBER	<b></b>	! REV
			(E)	MFG.ENG.:	S.	CASTIGLIONE	DATE:	30-JUL-81	к	PL	7018079-	-0-0	A
+++	++++++++++++	****		ASSEMBLY NO E-AD-701807			E-UA-	CUMENT NUM		! ++++ !	FILE NAM	++++++ 1E:	EDIT #
	"THIS DRAWING A	ND SP ISED I	PECIFICATIONS HEREIN, ARE N WHOLE OR IN PART AS THE COPYRIGHT	THE PROPERT BASIS FOR (C) 1981. D	Y O THE IGI	F DIGITAL EQU MANUFACTURE TAL EQUIPMENT	IPMENT OR SAL	CORPORATI E OF ITEMS RATION	HTTW	SHAL OUT WR	L NOT BE	REPRODUCI MISSION.	D
			· <b>····································</b>		+++	+++++++++++	+++++	++++++++	++++	++++	+++++++	+++++++	+++++

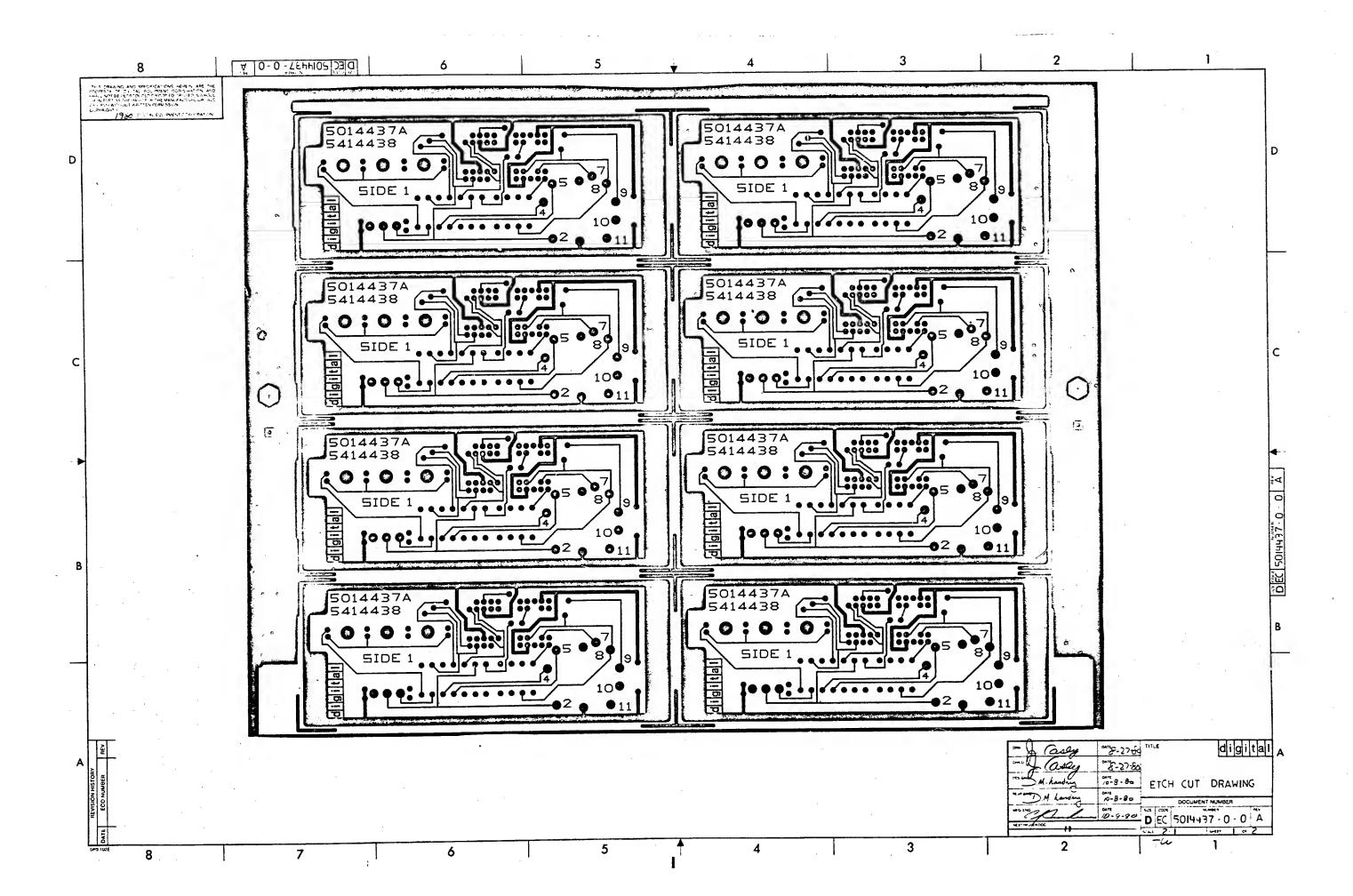
B DD 2HHH38-0 DRAWING NO. PART NO. **DESCRIPTION REVISIONS** A B B A B B A A A MODULE REVISION 6-DD-5414438-0 CONSOLE MODULE CONSOLE MODULE D-UA-5414438-0-0 3 K-PL-5414438-0-DBP CONSOLE MODULE CONSOLE MODULE D-CS-5414438-0-1 1 AA D-MD-5014437-0-0 3 DRILL & ETCH DRAWING AA ETCHED BOARD 5014437 AA K-PC-5414438-0-DBG P.C. DESIGN DATA BASE AA D-EC-5014437-0-0 ETCH CUT DRAWING **NOTES:**  $|\alpha$ REVISIONS 3-82TWOCI DATE CHG NO. USED ON OPTION/MODEL 29 JUL 80 TITLE "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CONSOLE MODULE NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE NUMBER 5414438-0 ENG MANAGE REV. ITEMS WITHOUT WRITTEN PERMISSION. В COPYRIGHT® /980 DIGITAL EQUIPMENT CORPORATION KI S ST SHEET | OF

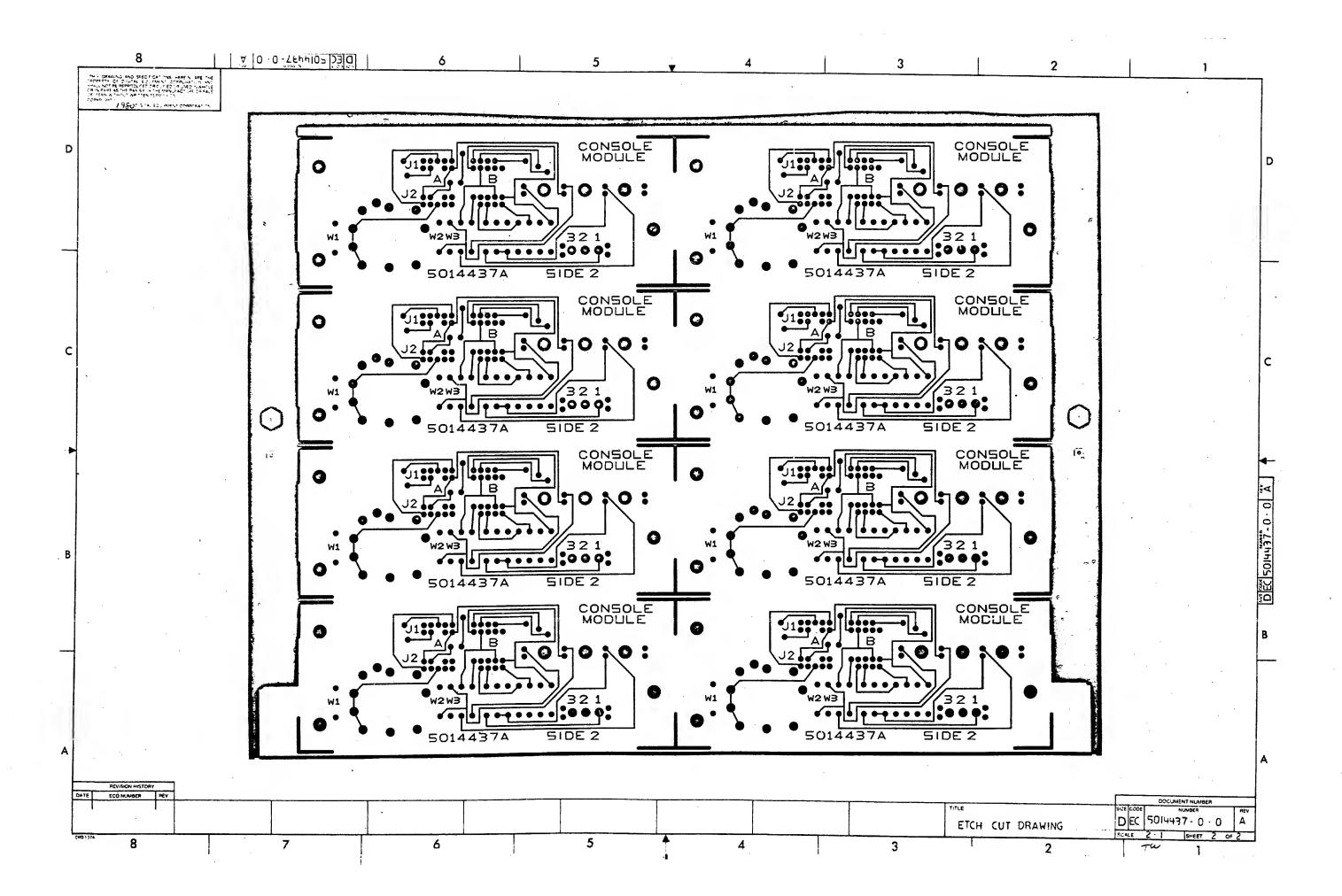


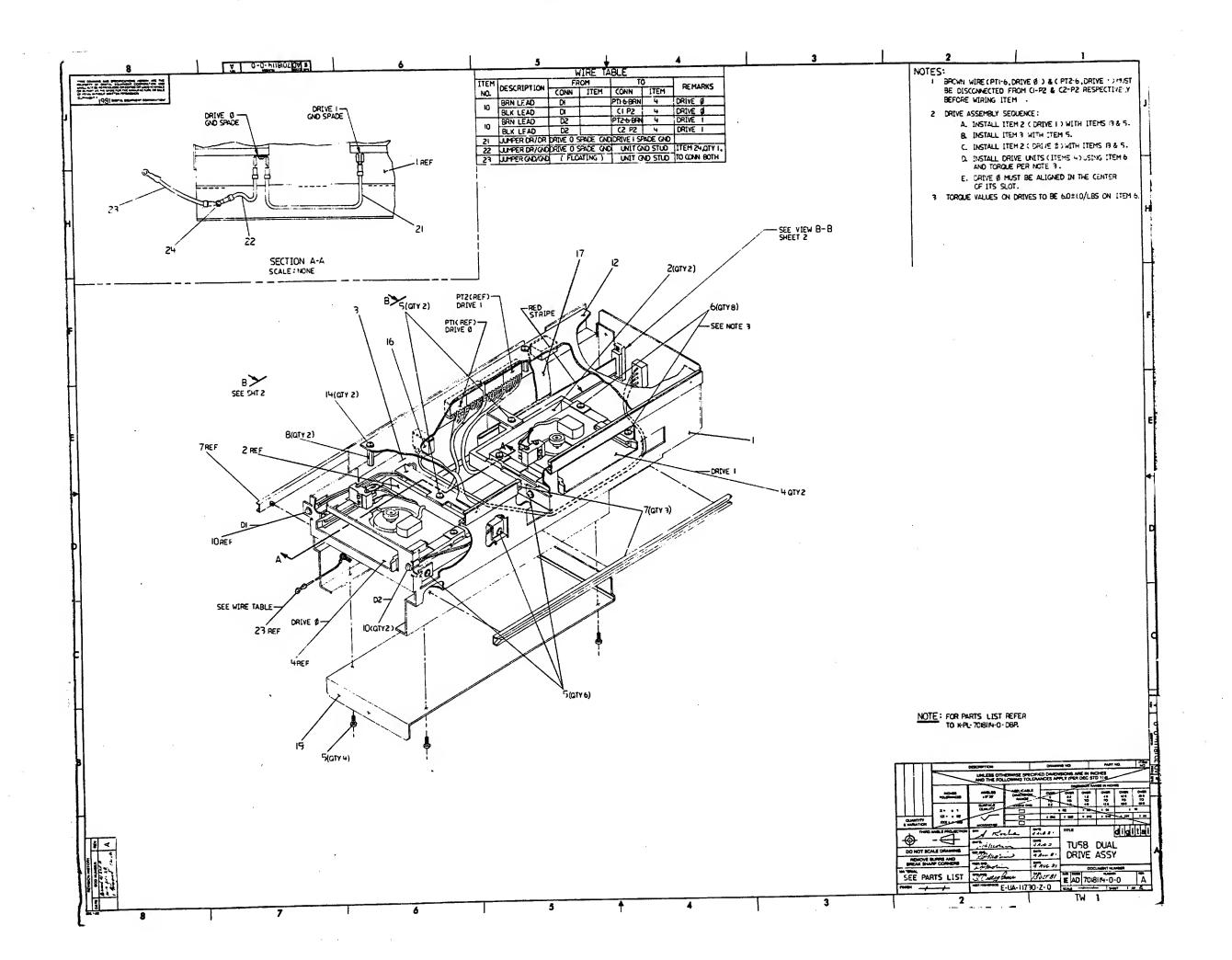
AUTOM	ATED	BY PRTLST, 3P(44)		PARTS LIST					SHEET	A1	OF	Ai
LINE	ITEM	DOCUMENT NUMBER	PAPT NUMBER	DESCRIPTION	QTY QQ		VAPIATION	REFERENCE DESI				
1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12 13	D=MD=5014437=0=0	5014437-00 1110864-00 1213506-06 1218038-00 1216179-00 1300229-00 1300316-00 1601562-00 7413127-00 9006555-00 9009236-01 9009321-00 9009185-00	CONSOLE MODULE LED 2MCD010MA HEADER 24POS RT ANGLE SW,ROT 1P 2.0A 6POS 1SECTION SW,LEVER 1P ON/OFF/ON 100.0 .25 W 5.0 % CC 470.0 .25 W 5.0 % CC 1.0 UH 10% 475MA #DD1.00 LED HOLDER REWORK NUT,HEX , 2-56X3/16AF X 1/ SCREW,TAPPING,TYPE F,PAN ,PHIL, LOCK TITE, SCREW LOCK, 10CC PER JUMPER, WIRE, INSULATED, BLACK B	3 A/R	1 4  1 1 3 4 1 1 2 3 3 A/R		D1-D4 J2 S1 S2 R1,R2,R8 R3,R5-R7 L1				
14	14		CONT 1213506=08	HEADER 24POS RT ANGLE	-			W2,W4				

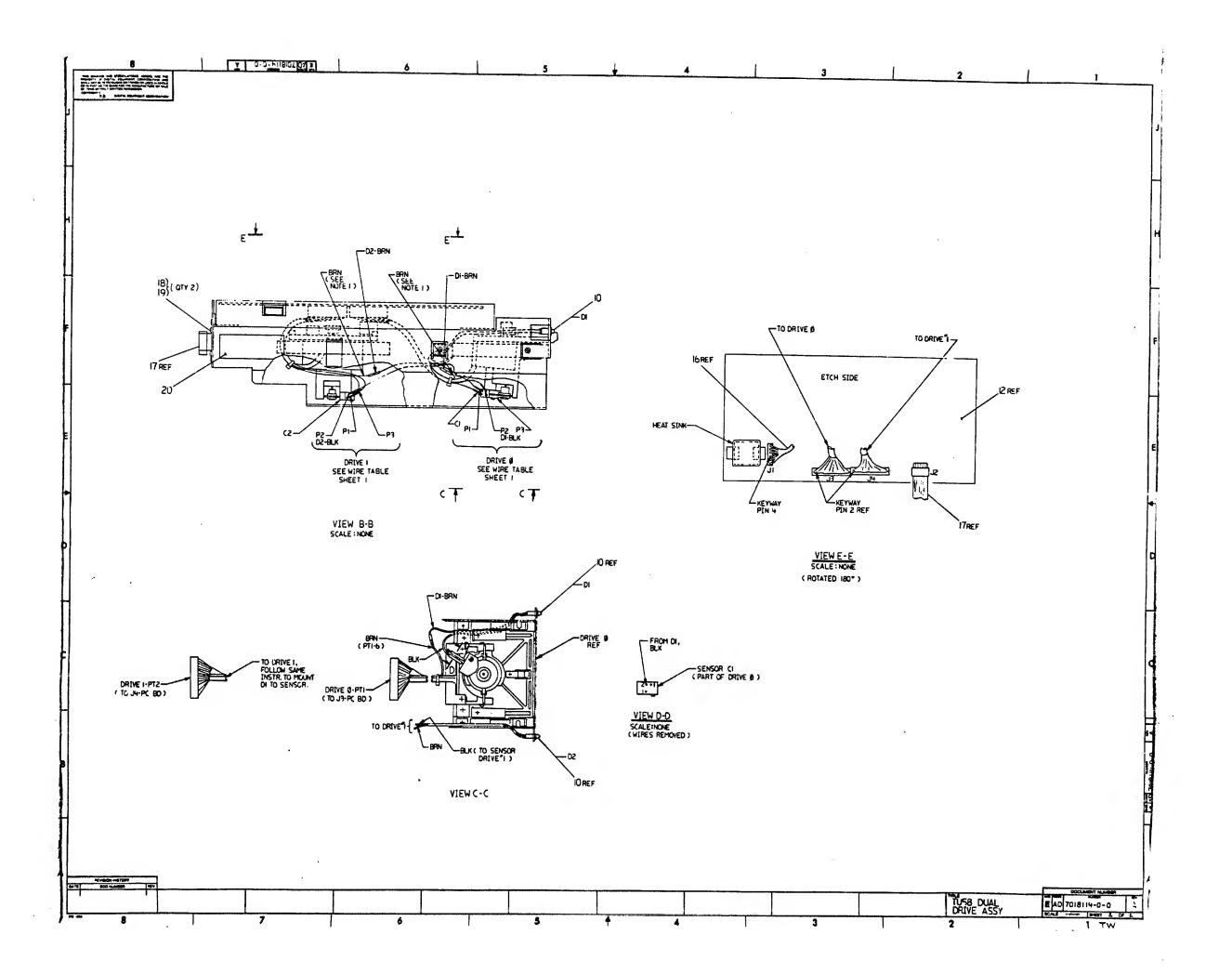
	EVIŠION HISTOR	¥	IBASIC PART NO. 5414438	I IDRN:	P.GROSSE	I IDATE: 09-JUL-80	!			
NG!	ECO NUMBER	IREV	ISECTION A OF A	l	- 10110000 - 10110000	-		<u> </u>	IIIGIIIT	I A I L
	INITIAL	-     A 	SECTION. VARIATION INDEX	ICHK*D:	F.GAROFALO	DATE: 09-JUL-80	•	ia c	PARTS LIST	· (1941) · (1942)
1 1		! !	[B] [C] [D]	I IDES.ENG:	D.LANDRY	  DATE: 09-JUL-80	1			
		1	i (E)	I IRESP.ENG.:	D.LANDRY	IDATE: 18-SEP-80			OCUMENT NUMBER	
į	*	1	i (a)	I IMFG.ENG.:	J.CONSIDINE	•	ISIZEICO	1	NUMBER 5414438-0-DBP	l REV L L A
			1 [M]	LASSEMBLY NI LD-UA-54144	- · · ·	TOP DOCUMENT NUM	BER:		FILE NAME: Z1273A,PLS	LEDIT 1
	"THIS DRAWING OR COPIED OR	AND S	PECIFICATIONS HEREIN, ARE IN WHOLE OR IN PART AS TH COPYRIGHT	E BASIS FOR	THE MANUFACTURI	QUIPMENT CORPORATI E OR SALE OF ITEMS NT CORPORATION "	ON AND S WITHOUT	HALI WR	L NOT BE REPRODUC ITTEN PERMISSION.	ED





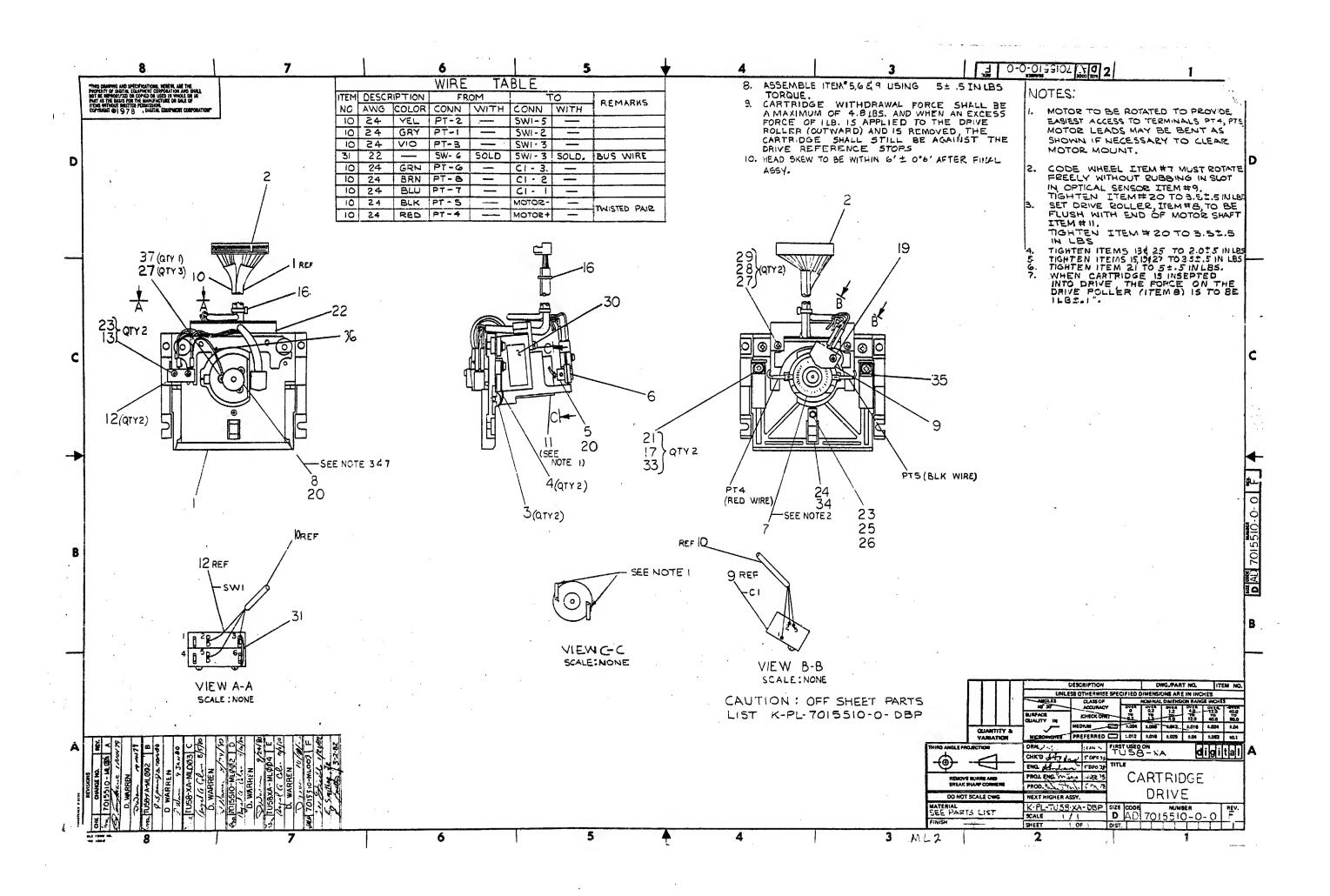






AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	QUANTITY PER VARIATION 00	SHEET A1 OF A1
1	7018164-00 7423933-00 7424846-00 7015510-00 9009701-00 9009984-02 9010107-00 9009284-00 1118799-00 5413489-00 9009643-02 7424848-00 7018166-18 7016305-0K 9006013-01 9009990-00 9009255-01 7018521-00 7018523-00 9008185-00	TU ENCLOSURE RIVETED ASSY TUSB PLATFORM BRACE CENTER TU CARTRIDGE DRIVE SCREW, PAN, PHILL SEMS 6-32X .312L SCREW, SEMS, PHILLIPS PAN HD. 6- GUIDE, CARD 11"LG. STANDOFF, HEX.M/F 4-40 *** THIS ITEM IS NOT USED *** LED 15.0MCDJ20MA 3.0V *** THIS ITEM IS NOT USED *** TUSB ELECTRONICS SERIAL *** THIS ITEM IS NOT USED *** SCREW, PAN, SLOT, SEMS 4-40X .250L PLATE, BOTTOM, TU TU BUCKHEAD PWR CABLE CABLE, SERIAL TUSB SCREW, PAN, PHIL 4-40K 1/2 SS NUT, KEP 4-40 X1/4 AF LABEL, POWER SUPPLY, 2-7/8" LG X JUMPER, DRIVE/DRIVE JUMPER, GND/GND JUMPER, GND/GND NUT, KEP 6-32X 1/4 AF	1 1 2 2	

++++	REVISION HISTORY	-+++	BASIC PART NO: 7018114	DRN:	A.	ROCHA	DATE:	23-JUL-81		D +++	I G		A L
ENG +++	+++++++++++	4444	SECTION A OF A SECTION. VARIATION INDEX [A] 00	CHK'D:	R.	MORIN	DATE:	23-JUL-81	TITLE TUS8		PARTS L. L DRIVE AS	151	
			(B)	DES.ENG.:	R.	+++++++++	++++	23-JUL-81	+++++ !	-+++	DOCUMENT I	++++++ NUMBER	++++++
			i mi	RESP.ENG.:	+++	+++++++++	+++++	23-JUL-81	12175	UDE	אטוזטבא	-	REV
			(F)	ASSEMBLY N	UMB 14-	<u>0-0</u>	TOP D E-UA-	OCUMENT NUM	BER:		FILE NAME 21352A.PL	<b>.</b> 5	EDIT #
	"THIS DRAWING AND SPECIFICATIONS HEREIN. ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  COPYRIGHT (C) 1981. DIGITAL EQUIPMENT CORPORATION												



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AUTOMATED BY PRILST.3P(44)		PARTS LIST	QUANTITY PER VARIATION	SHEET A1 OF AS
LINE ITEM DOCUMENT NUMBER	PART NUMBER DE	SCRIPTION	00	
1 D-IA-7016558-0-0 2 2 3 3 C-MD-7420645-0-0 4 4 C-MD-7423353-0-0 5 5 C-MD-7420651-0-0 6 6 B-MD-7420652-0-0 7 7 C-MD-7420649-0-0	1216144-00 CO 7420645-01 LO 7423353-00 SP 7420651-00 HU 7420652-00 CL 7420649-00 WH	AD MOUNTING ASSY VER, CONN FOR 12-15819 OCK, ROLLER PRING, BEVELED UB, ENCODER AMP UEEL, CODE	1 1 1 1	
8 8 9 9 10 10 D-IA-7016017-0-0 11 11 12 12 13 13 14 14 15 15 16 16 17 17	1915721-00 7016017-00 CA 1215602-00 MC 1209782-00 SW 9008025-01 SC 9006009-02 ** 9008301-01 SC 9007031-00 WA	REW.PĀÑ,PHIL 4-40X 1/4 SS E.CABLE BUNDL.DIA 0- 3/4"=10 ASHER. LOCK. S.S. #6	55 2 • 3 01 2	
10 10 D-IA-7016017-0-0 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 18 B-MD-7422968-0-0 19 20 20 21 22 C-MD-7421491-0-0 23 23 23 24 24 25 25 26 27 28 29 30 30	9006278-10 SC 9006021-01 SC 7421491-00 CL 9006631-00 WA 7423355-00 SF 9006001-02 SC 9006555-00 NL 9006655-00 WA	THIS ITEM IS NOT USED ***  REW, PAN, PHIL 4-40K 1/2 SS  REW, SET SKT , 4-40X 1/8  REW, PAN, PHIL 6-32X 5/16 SS  AMP, CABLE  SHER, LOCK, INT, . 1800D X .096IC  RING STRAIGHT SUPPORT  REW, FLAT, PHIL 2-56X 1/4  JT. HEX 2-56X3/16AF X 1  REW, PAN, PHIL 4-40X 5/16 SS  SSHER, FLAT, .312 O.D. X .125  SSHER, LOCK, S.S. #4  BBEL, SERIAL TUS8-XA		
REVISION HISTORY  ENG! ECO NUMBER !REV!	BASIC PART NO: 7015510  ********************************	DRN: D.WARREN CHK'D: D.HEALY DES.ENG.: M.LEIS RESP.ENG.: M.LEIS	DATE: 5-DEC-78  CARTRIDO DATE: 5-DEC-78  CARTRIDO DATE: 5-DEC-78	PARTS LIST  GE DRIVE  DOCUMENT NUMBER
	ECIFICATIONS HEREIN, HRE	ASSEMBLY NUMBER:  THE PROPERTY OF DIGITAL EQUIF BASIS FOR THE MANUFACTURE OF	DATE: 5-DEC-78 K PL	7015510-0-DBP E FILE NAME: EDIT # Z1610E.PLS 13
		(C) 1981. DIGITAL EQUIPMENT		

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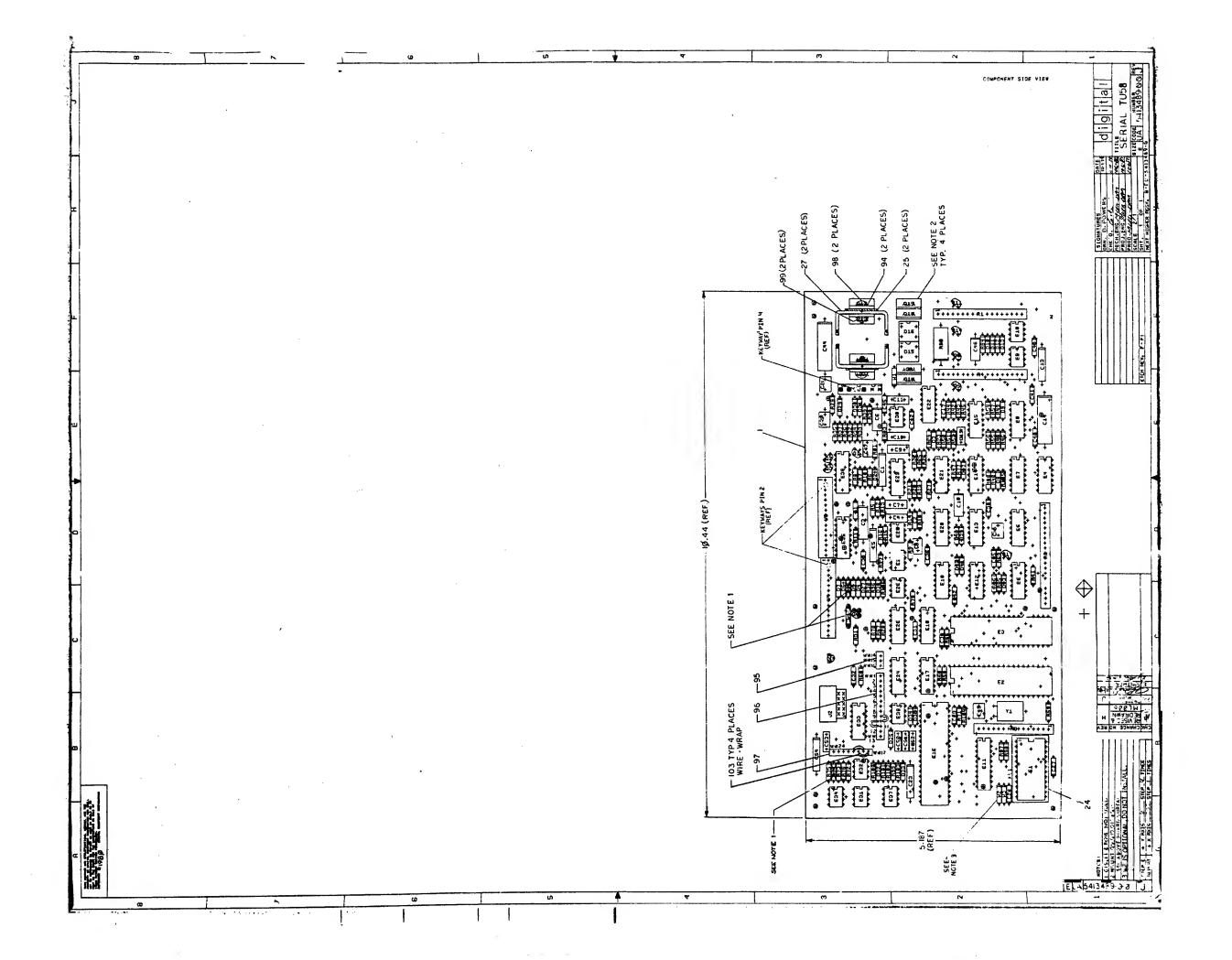
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AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	QUANTITY PER VARIATION DG	SHEET AS OF AS
31 31 32 32 33 33 C-MD-7423354-0-0 34 34 B-MD-7423356-0-0 35 35	9107560-01 9006656-00 7423354-00 7423356-00 9007113-01	WIRE, BUSS, 22AWG *** THIS ITEM IS NOT USED *** WASHER, LEAF SPRING BUTTON, SUPPORT TERM QUICK .152DIA .250TAB BR/	2 1	

D I I G I I T A L CARTRIDGE DRIVE SECTION A OF A	SIZE CODE DOCUMENT NUMBER REV	+
	K PL 7015510-0-08P E	

B DD SISE CODE 0-6842149 REV. NUMBER DRAWING NO. OF PART NO. **DESCRIPTION REVISIONS** B-DD-5413489-Ø SERIAL TU58 \* A B C D E F H SERIAL TU58 CDDEFFHJ -UA-5413489-Ø-Ø 3 D-CS-5413489-Ø-1 2 SERIAL TU58 CDDEFFHJ DRILL & ETCH DRAWING C D D D D E E E-MD-5013488-Ø-Ø 4 ETCHED BOARD DE EEEEFF 5013488 PARTS LIST DATA BASE (5413489) CDDEFF K-PL-5413489-Ø-DBP P.C. DESIGN DATA BASE (5413489) A B BB cc K-PC-5413489-Ø-DBC В 2 ETCH CUT DRAWING E-EC-5013488-0-0 SERIAL TU59 3 E-UA-5413489-0-0 C1 C1 C1 C1 C1 C1 SERIAL TU58 2 D-CS-5413489-0-1 61 | 61 | 61 | 61 | 61 PARTS LIST DATA BASE K-PL-5413489-0-D3P 5013488 ETCH BOARD F1F1 F1 SERIAL TU58 E-UA-5413489-0-0 - F1F1 F1 2 SERIAL TU58 D-CS-5413489-0-1 FIF1 F1 K-PL-5413489-0-DBP PARTS LIST DATA BASE (5413489) E EE 5013488 ETCH BOARD **NOTES:** M M D D M M SPECIAL REVISIONS: FOUND ON SHEET 2 REVISIONS
CHGNO. FIST REL
MLØØ1
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MLOOO DRN. P. BOSSMAN 6/14/78 TITLE **USED ON OPTION/MODEL** "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-TU58 SERIAL TU58 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE NUMBER 5413489-Ø NUMBER REV. 8/1/18 ITEMS WITHOUT WRITTEN PERMISSION. H PROD. Pater Bator COPYRIGHT® 1978 8-1-18 SHEET 1 OF 1 DIGITAL EQUIPMENT CORPORATION **DRB 126** 

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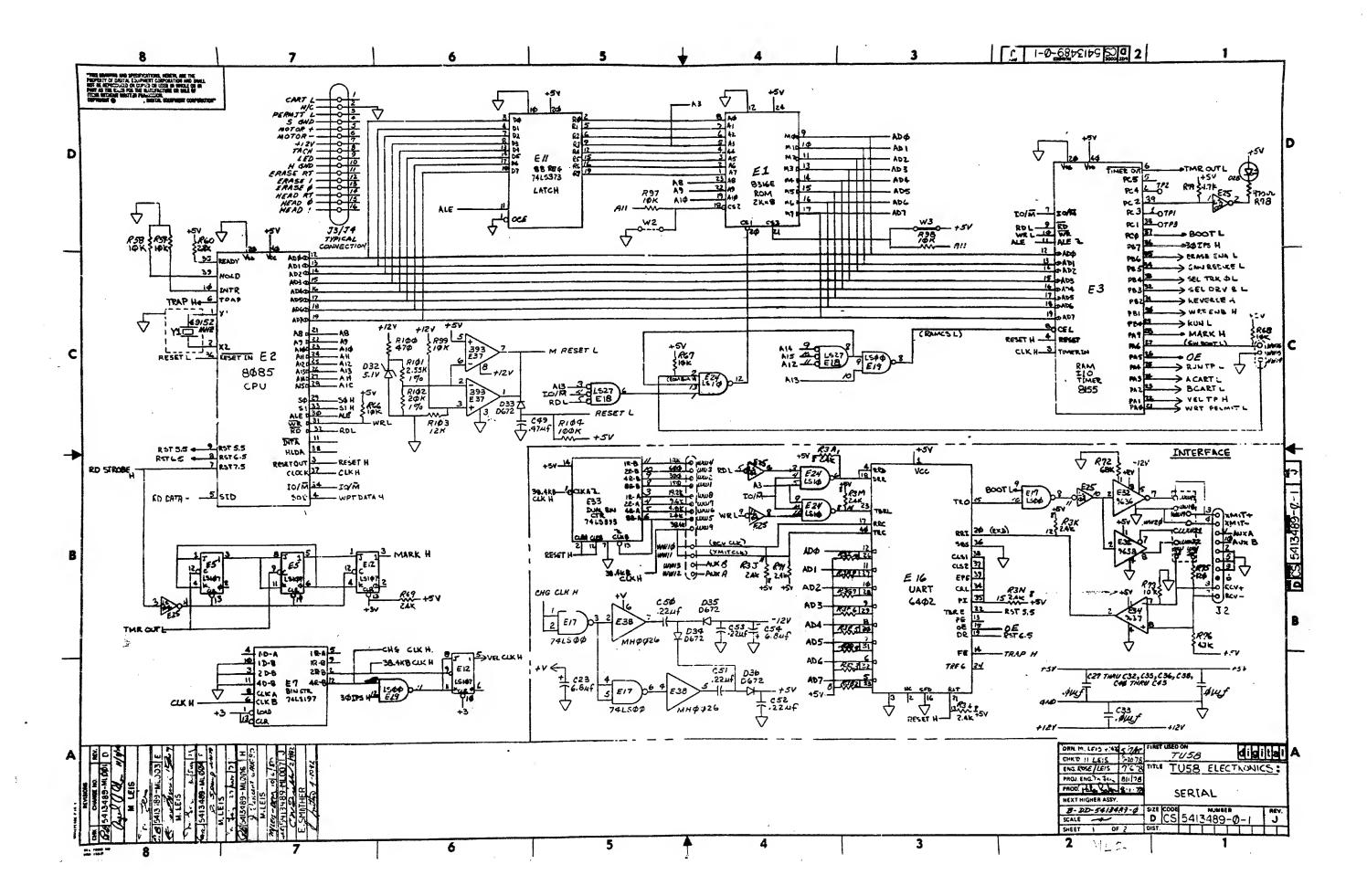


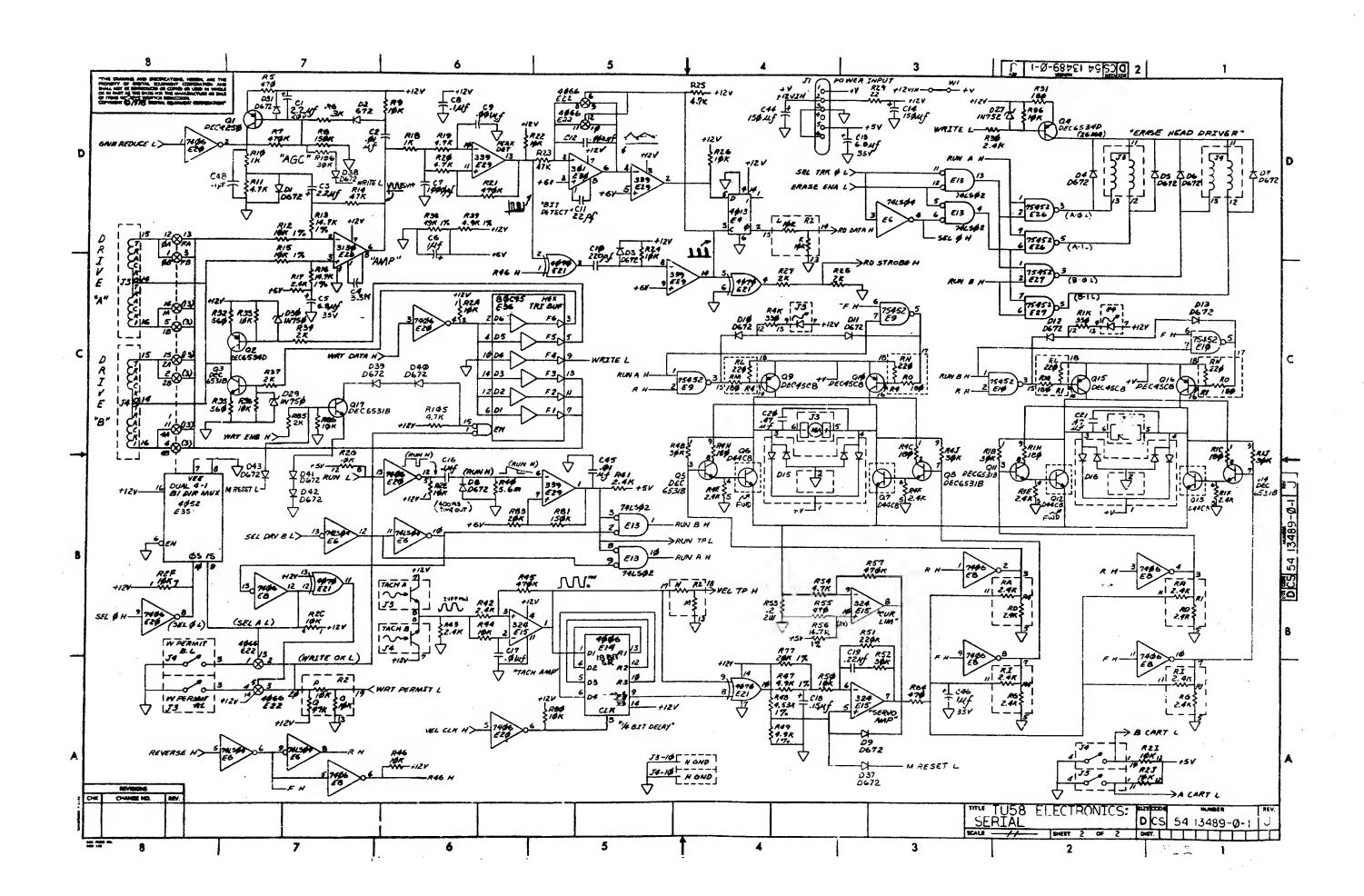
AUTOMATED BY PRTLST.2D(16)		PARTS LIST	, , , , , , , , , , , , , , , , , , , ,	SHEET A1 OF A3
LINE ITEM DOCUMENT NUMBER		SCRIPTION	QTY PER VARIATIO	REFERENCE DESIGNATOR
1 1 2 2 3 3 4 4 5 5 6 6 7 7	1215816-00 HEA 1000021-00 22 1000023-00 *** 1010978-36 •1 1000042-00 100	00.0 MMF 100V 5%200PPM MI 1 MFD 50V +80-20% 25U C	2 CA 1 ER 3 CA 2 ER 17	J3, J4 C10 C8, C16, C47 C9, C7 C2, C17, C27-C33, C35, C36, C38, C40 C41, C42, C43, C45
8 8 9 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16	1002315-00 200 1013466-21 1002431-00 1005306-00 1005334-00 *** 1005820-00 1010978-40 •2: 1011895-00 •1:	1 MFD 35V 10% S.TA 00.0 MMF 500V 5%200PPM MI 3.3 MMF 50V+-5FF C 2.2MFD 35V 10% S.TA 6.8MFD 35V 10% S.TA * THIS ITEM IS NOT USED *** 22.0 MMF 100V 5%200PPM MI 2 MFD 50V 10% C 5 MFD 35V 10% S.TA * THIS ITEM IS NOT USED ***	NT 2 CA 1 ER 1 NT 2 NT 4 CA 1 ER 1 IER 1	C6,C46 C12 C4 C1,C3 C5,C13,C23,C54 C11 C19 C18
17 17 18 18 19 19 20 20 21 21 22 22 23 23 24 24 25 25 USED FOR Q7 & Q1 26 26 27 27 28 28 29 29	1100101-00 ** 1102808-00 1N 1105275-00 1110324-00 LE 1115369-00 VM 1213506-04 HE 1212385-04 SD 12131071-06 IN 1213113-01 ** 1213418-01 HE 1300247-00 12 1300274-00 **	* THIS ITEM IS NOT USED ***  752A VZ= 5.6 5% .40W  0 672 TR= 15NS PIV= 60V SI  1 1MCD@10MA PIV=3  18 PIV=100 I=1A  ADER 10POS RT ANGLE W/3  CKET 24PIN IC  SULATOR, RUBBER SILICONE  * THIS ITEM IS NOT USED ***  AT SINK, VERTICLE MNT, ALUMINUM COO .25 W 5.0 % COM  * THIS ITEM IS NOT USED ***	SI 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	XE1
! REVISION HISTORY	!BASIC PART NO: 5413489 !	! !DRN: DAN MUTNANSKY	DATE: 22-MAY-78 !	DITIGITIALL
!!!!C !! INIT !C !PB !5413489-ML001 !D	SECTION. VARIATION INDEX	!CHK'D: P. BOSSMAN	!DATE: 6-JUNE-78 ! !! !	
!ML !5413489-ML004 !F !D.M!5413489-ML006 !H	! EC3 ! ED3	!DES.ENG: MIKE LEIS !! !RESP.ENG.: M. LEIS	!!	DOCUMENT NUMBER  [ZE!CODE! NUMBER ! REV
		! MFG.ENG.: F. BARTON		
	! EM3 ! EM3 !	!ASSEMBLY NUMBER: !E-UA-5413489-0-0	!TU58 !TU58	! Z0582H.PLS ! 38
•THIS DRAWING AND S OR COPIED OR USED	PECIFICATIONS HEREIN, ARE	THE EDOPERTY OF DIGITAL FO	OR SALE OF ITEMS W	AND SHALL NOT BE REPRODUCED ITHOUT WRITTEN PERMISSION.

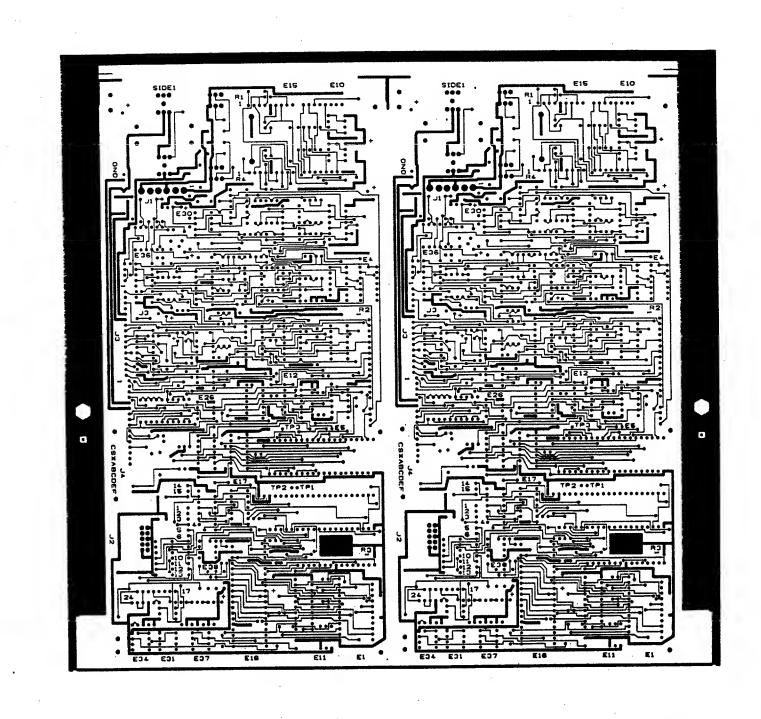
!	AMOTUA	TED E	Y PF	RTLS	T.21	0(16	5)			Р	A R	TS L	I S	r .	QTY F	PER VA	RIATI	אט		SHEET	A2 OF A	3
	LINE I	TEM	DOCUI	MENT	. אחא	MBER	?	F	PART NUMBER	DESCRIPT:	ומס:				00			RE	FERENCE D	ESIGNATOR		
	30	30						:	300316-00	470+0		5 W 5.0	%	CC	5			R5	,R55,R100	,R78,R84		
	31	31							300365-00	. 1.0 K		5 W 5.0		CC	2				0,R18			
	32	32							300295-00	*** THIS					-							
	33	33							300447-00	4.70 K		5 W 5.0		CC	. 8					,R25,R54,R7		
	34	34							1300479-00	10.0 K	• 2	5 W 5.0	7.	CC	21		COLUT			R26,R44,R46		
																	CONT			',R68,R80,R3	3,R36,R9	6,
	75	75							701700 00	100.0	~		•/	cc .			CONT		16,R7 <b>3,</b> R97	-877		
	35 36	35 36							l301322-00 l301327-00	180.0 68.0 K		15 W 5.0 15 W 5.0		CC			•	R3 R7				
	37	37							1301327-00	3.0 K		25 W 5.0		CC	•			Ré				i
	38	38							1300432-00	22.0		5 W 5.0		CC	1			R2				
	39	39							1302092 -00	220.0 K		5 W 5.0		CC	1			RE				
	40	40							1302177-00	47.0 K		5 W 5.0		CC	5				.4,R23			
	41	41							1302388-00	2.0 K		5 W 5.0		CC	5				7,R28,R34	-R37-R85		
	42	42							302391-00	20.0 K		5 W 5.0		CC	ī			RE				
	43	43							1302394-00	30.0 K		5 W 5.0		CC	2				2,R106			
	44	44							1302396-00	150.0 K		5 W 5.0		CC .	2				3,R81			
	45	45		•					1302398-00	470.0 K	.2	5 W 5.0	%	CC	4				7,R21,R45,	R57		
	46	46						:	1302941-00	14.70 K		5 W 1.0		55D-F10	3			R1	3,R16,R56			
	47	47							1303177-00	2.40 K	.2	25 W 5.0	%	CC	8					,R42,R43,R6	0,R69,R7	1
	48	48							1303312-00	10.0 K		5 W 1.0			2				.2,R15			
	49	49							1305324-00	4.99 K		5 W 1.0			4				58,R39,R47	',R49		
	50	50							309386-00	5.60 M		5 W 5.0		CC	1			R4	10			
	51	51							1001610-01			M IS NO			-							
	52	52							1311466-CO	.20		W 5.0		WW ===================================	1			R				
	53 54	53 54							1313596-00	20.0 K R NETWGRI		5 W 1.0		55D-F10 K 20PIN	- 4				77•R102			
	54 55	55							1315660-00 1315661-00	R NETWORK				1 ZOF 114	. T			R2	. rR4			
	55 56	56		,					1315662-00	R NETWOR				% 15PIN	1	•		R3				
	57	57							1503409-00	DEC6534D		310MW			2				, 2,Q4			
	58	58							1509142-00	DEC4250		200MW			1			Qı				
	. 59	59							1509338-00	DEC6531B		310MW							=	1,014,017		
	60	60							1510421-00	D 44C					4				,07,012,0			
	61	61					1		L510598-00	DEC45C8	PNP	27WT	3I 60	20 Y	4				,010,015,			
	62	62							1812396-06			MHZ			1			Y1		. */		
	63	63							1910282-00			OP AMP			1			E				
	64	64							1910645-00	754		DRIVER,			4				?,E10,E26,	E27		
	65	65							1910741-00	74		NVERTER M IS NO			1			Eξ	3			
	66	. 66	-						1911242-00					ሀ ককক	-	×			ter .			
	67	67	1.4		٠.				1912107-00			IP AMP,Q VOLT CMP		IAD	. 1			E1				
	68 69	68 69	٠						1912108-00 1912799-00	LS		IAND-GAT			7			E	27 17,E19		•	
	70	70				•			1912801-00	LS		IOR-GATE			1				3	8		
•	71	71							1912803-00	774LS		NVERTER			2				5,E25			
	72	72							1912807-00	LS		IAND GAT			ī			E				
	73	73			- 0				1912813-00	LS		IOR GATE			1			Εı		σ.	•	200
	74	74	٠.						1912832-00	LS1	07 F	F-JK DU			2				5,E12			
·	75	75					•		1912857-00	LS1	77 CO	OUNTER, B	INARY	PRESET	1			. E7	7			
	!!!	!	<u>-</u>	<u> </u>	<u>-</u>	<u> </u>	<u>!</u>	TITL					!			<u>!</u>	!SIZ	EIC	DE! DOCUM	ENT NUMBER	! REV	!
	1. D !	I!	G!I	į .	T!	A !	L!	V.	SERIAL TUS	18			! SE	CTION A	OF A	!	i ·	ŀ			į.	1 ,
		_	-																L ! 54134		! H	

ي المناز المنافقة على المنافقة 
AUTOMATED BY PRTLST.2D(1	•	PARTS LIST	QTY PER VARIATIO	SHEET A3 OF A3
LINE ITEM DOCUMENT NUMBE	PART NUMBER	DESCRIPTION	00	REFERENCE DESIGNATOR
76 76	1914451-00	74LS393 COUNTER, BINARY, 4BIT	1	E33
77 77	1914466-00	3130E OP AMP MOS/FET IN,CM	1	E28
78 78	1915219-00	LS373 FF-D OCTAL-TRANSPARE	1	E11
79 79	1915415-00	9636 DRIVER, DUAL, EIA RS-	1	E32
80 80	1915416-00	9637 RECEIVER, DUAL, RS-42	1	E34
81 81	1915417-00	9638 DRIVER, DUAL, EIA RS-	1	E31
82 82	2113605-00	4006B SHIFT REG, 18 STAGE	1	E14
83 83	2113609-00	4013B FF-D DUAL W/SET/RESE	1	E4
84 84	2113630-00	4052B MULTIPLEXER 4CHAN DI		E35
85 85	2113632-00	4065B BILATERAL SWITCH-QUA	1	E22
86 86	2113634-00	4070B X-OR GATE-QUAD CMOS	1	E21
87 87	2113937-00	UART 125K BUAD	1	F16
88 88	2114663-00	MM 80C95 BUFFER-GATE-HEX TRIS	1	E36
89 89	2114963-00	UP,8-BIT NMOS	1	E2
90 90	2114964-00	RAM 2048 MOSJ-STATIC		E3
91 91	23089E2-00	E2-01	1	E1
92 92	1212619-07	HEADER.156 6POS STRAIGHT	1	J1
93 93	9009185-00	JUMPER, WIRE, INSULATED, BLACK B		W1,W3
94 94 USED FOR Q7 &	R12 9010057-00	WASHER, INSULATING SHOULDER FOR	2	
95 95	1215816-01	HEADER.100 3POS STRAIGHT	1	
96 96	1215816-02	HEADER.100 13POS STRAIGHT	1	
97 97	1215816-03	HEADER.100 8POS STRAIGHT	1	
98 98	9003011-01	SCREW, PAN, PHIL 4-40X 3/8 SS	2	
99 99	9006557-00	NUT, KEP , 4-40X 1/4 AF	2	
100 100	1100124-00	1N 750A VZ= 4.7 5% .40W P	2	D29,D30
101 101	1301890-00	560.0 .25 W 5.0 % CC	2	R32,R35
102 102	1313840-00	4.53 K .25 W 1.0 % RN55D-F10		R48
103 103	9105740-55	WIRE(WRAP)30AWG UL1423	A/R	CAA.CIA
104 104	1012084-03	150 MFD 15V +75-10% AL EL	. 2	C44,C14
105 105	9107256-11	*** THIS ITEM IS NOT USED ***	1 *	E20
106 166	1910741-01	7406N BUFFER, HEX	_	E20
107 107	5414232-00	*** THIS ITEM IS NOT USED ***		R101
108 108	1310633-90	2.55 K .25 W 1.0 % RN55D-F10 12.0 K .25 W 5.0 % CC	1	R103
109 109	1300488-00		<b>±</b> • · · · ·	R104
110 110	1302466-00		±	D32
111 111	1105871-00		. <b>1</b>	E37
112 112	1914156-00		. <u>+</u> 1	E38
113 113	1912098-00	0026 DRIVER, MOS CLOCK, 2 .22 MFD 50V +80-20% Z5U CER	. 4	C50-C53
114 114	1010274-01			C20, C21, C49
115 115	1010279-00	47 MFD 25V 20% CER		THE COMMENT OF STREET

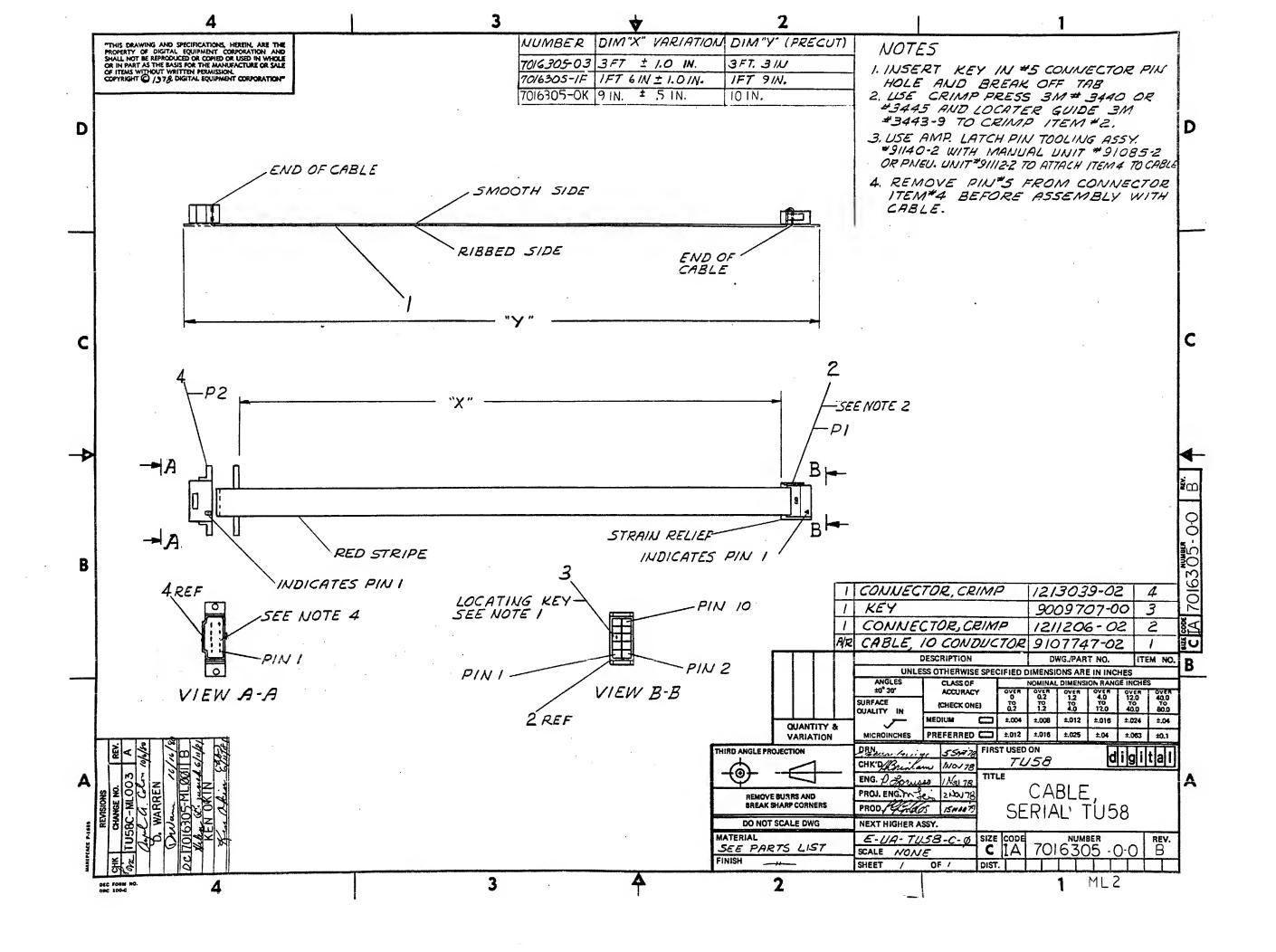
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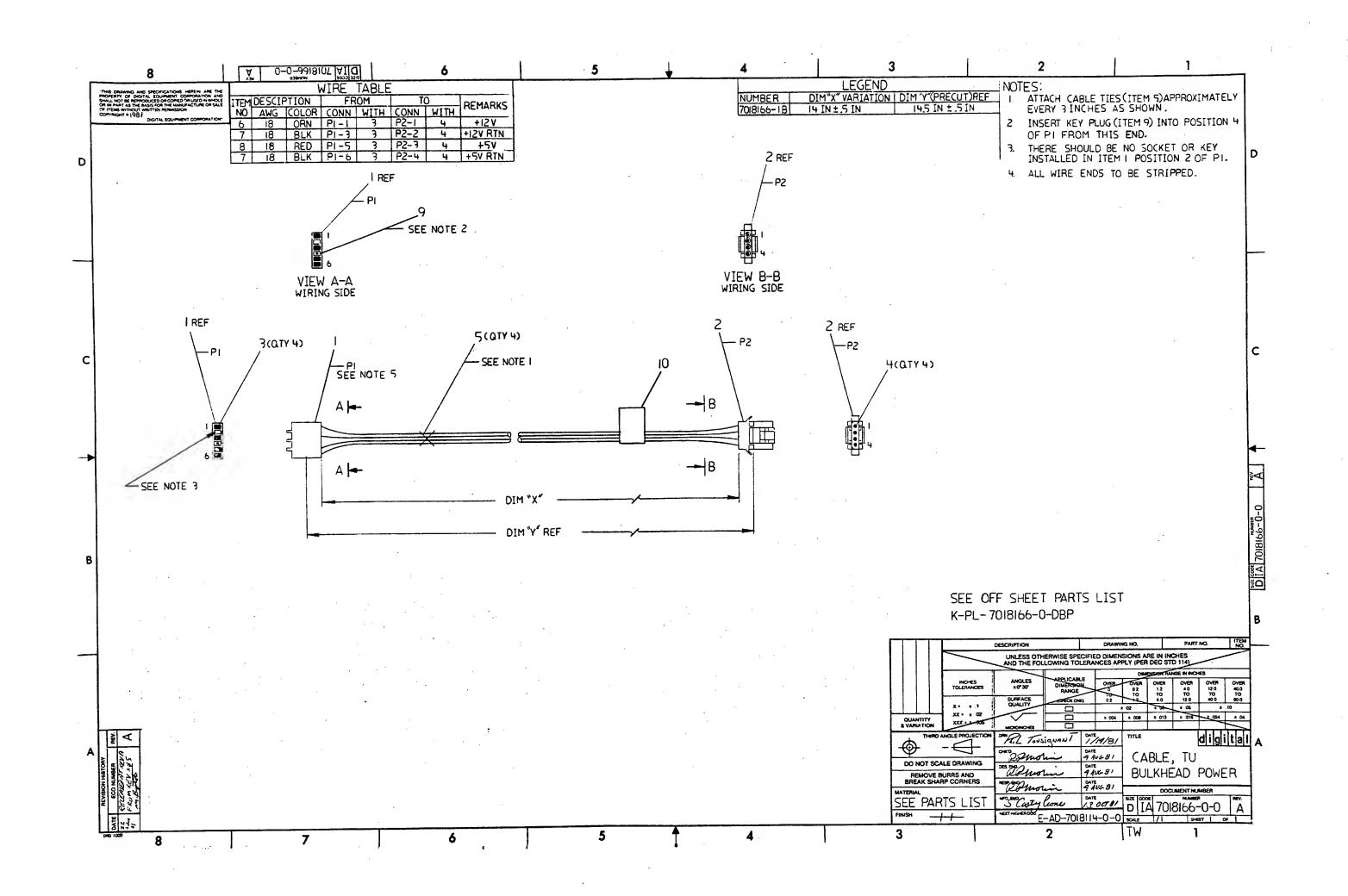






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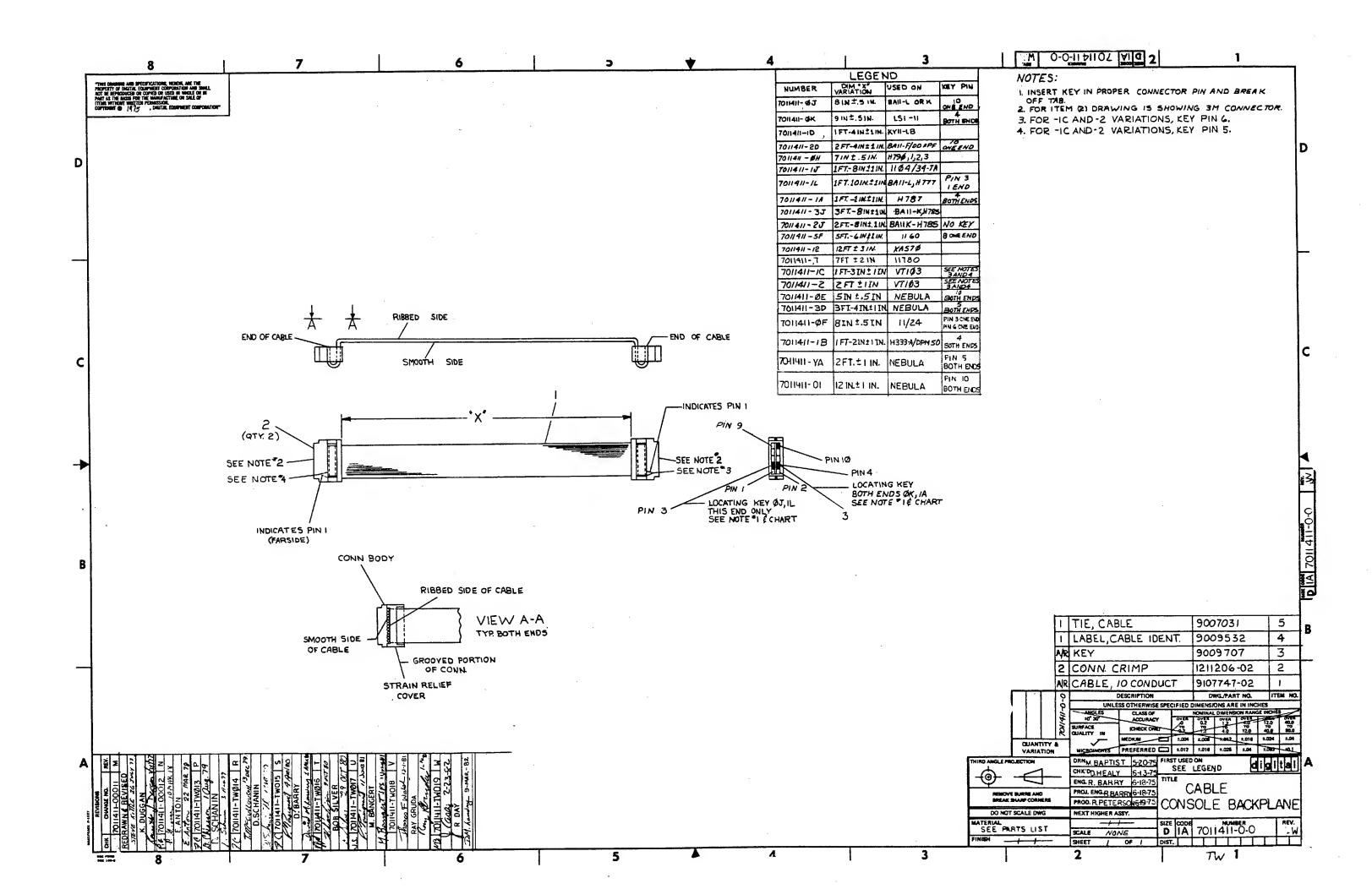


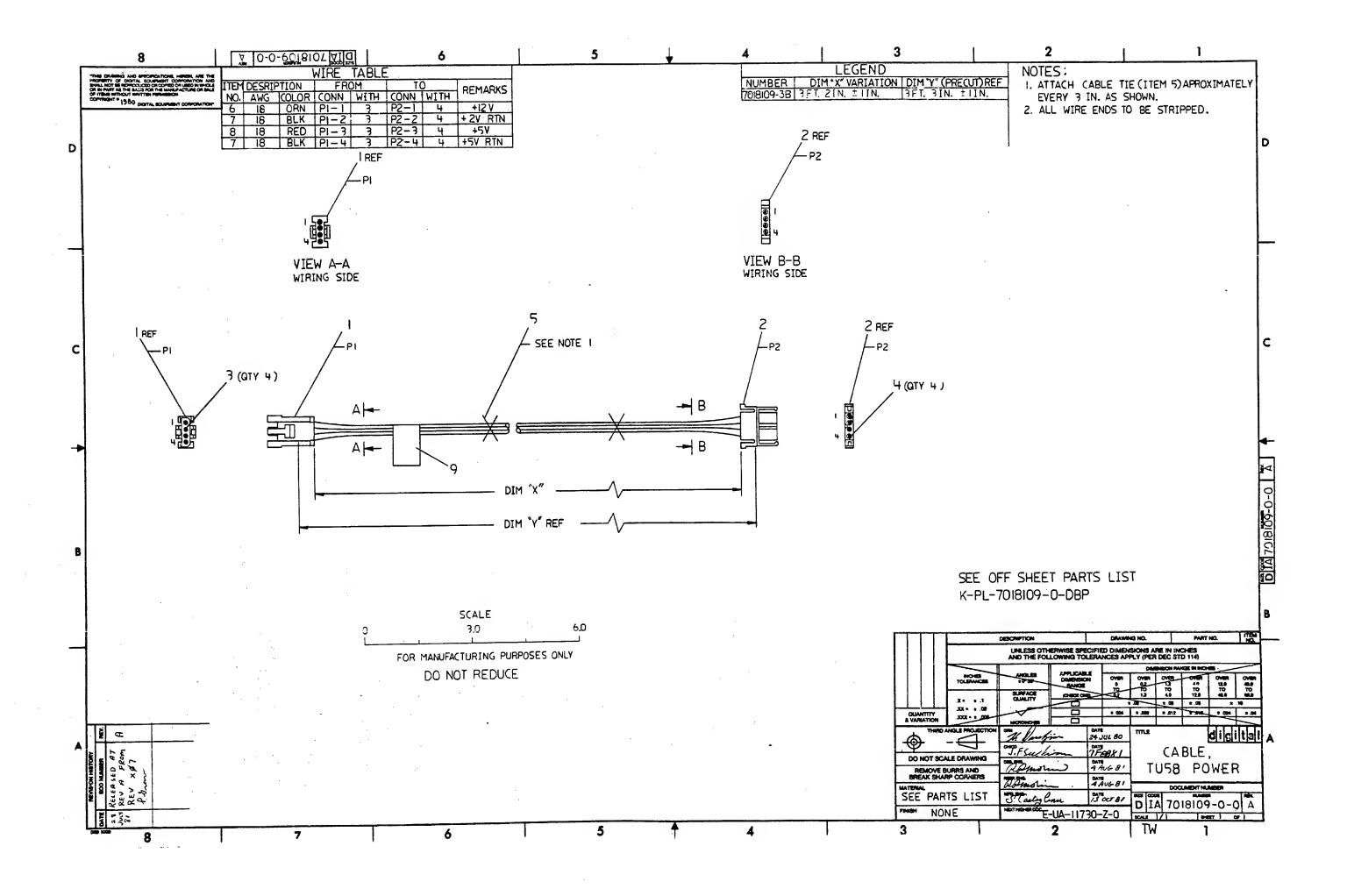
AUTOMATED BY FRILST.3F(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER	FARTS LIST DESCRIPTION	QUANTITY PER VARIATION
	12000 12000	CONN SPOS HOUSING ROPT 4PIN KEYED PIN CRIMP TYPE SKT 16-18AUG REEL TIE, CABLE BUNDL DIA 0- 3-4"=101 NIRE, STRND, 18AUG UL1430 NIRE, STRND, 18AUG UL1430 WIRE, STRND, 18AUG UL1430 WIRE, STRND, 18AUG CONN KEYING PLUG LABEL, POWER SUPPLY, 2-7-8" LG X	H-13-11-11-11-11-11-11-11-11-11-11-11-11-

SHEET A1 OF A1

11 NOTE: ITEMS 6,7 AND 8 ARE IN INCHES.

++++	etttettettette REVISION HISTORY	++++	BASIC PART NO: 7013166	DRN:	P.	TOUSIGNANT	DATE:	23-JUL-81	: ! ******	D	I G	I T	AL
ENG	ECO NUMBER	1	SECTION A OF A	+++++++++			+++++		TITL	++!+++ E	PARTS	LIST	+++!++
	INITIAL	A	SECTION. VARIATION INDEX	CHK'D:	A. +++	ROCHA +++++++	DATE:	23-JUL-81	ניד	BULKH	HEAD POWER	CABLE	
*			131	DES.ENG.:	R.	MORIN	DATE:	23-JUL-8:	. + + + +		-+-+++	++++++	++++++
			RESP.ENG.:	R.	MORIN	DATE:	23-JUL-81	<u> </u>		NUMBER	++++++		
			[D] ,- · · · · · · · · · · · · · · · · · ·	++++++++	-++		ĺ		!			0.000	REV
				+++++++++		CASTIGLIONE	***	+++++++++	++++	! ++++!	FILE NAM	~~~~	A EDIT #
			[F]	ASSEMBLY NU D-IA-701818	-6-(	0-0  -0	E-AD-	OCUMENT NUMI 7018114-0-0	DER: ++++		Z1854A.P		11
444	THIS DRAWING	ND S	PECIFICATIONS HEREIN, ARE IN WHOLE OR IN PART AS TH	THE PROPERT	TY (	OF DIGITAL EQU	JIPMEN OR SAI	T CORPORATION	MA NO	D SHAL	L NOT BE	REPRODUC MISSION.	ĖD
	ON COPIED ON	.eeee	COPYRIGHT	(C) 1981. [	)IG	ITAL EQUIPMENT	CORP	ORATION "			-++++++	++++++	`i  ++++++



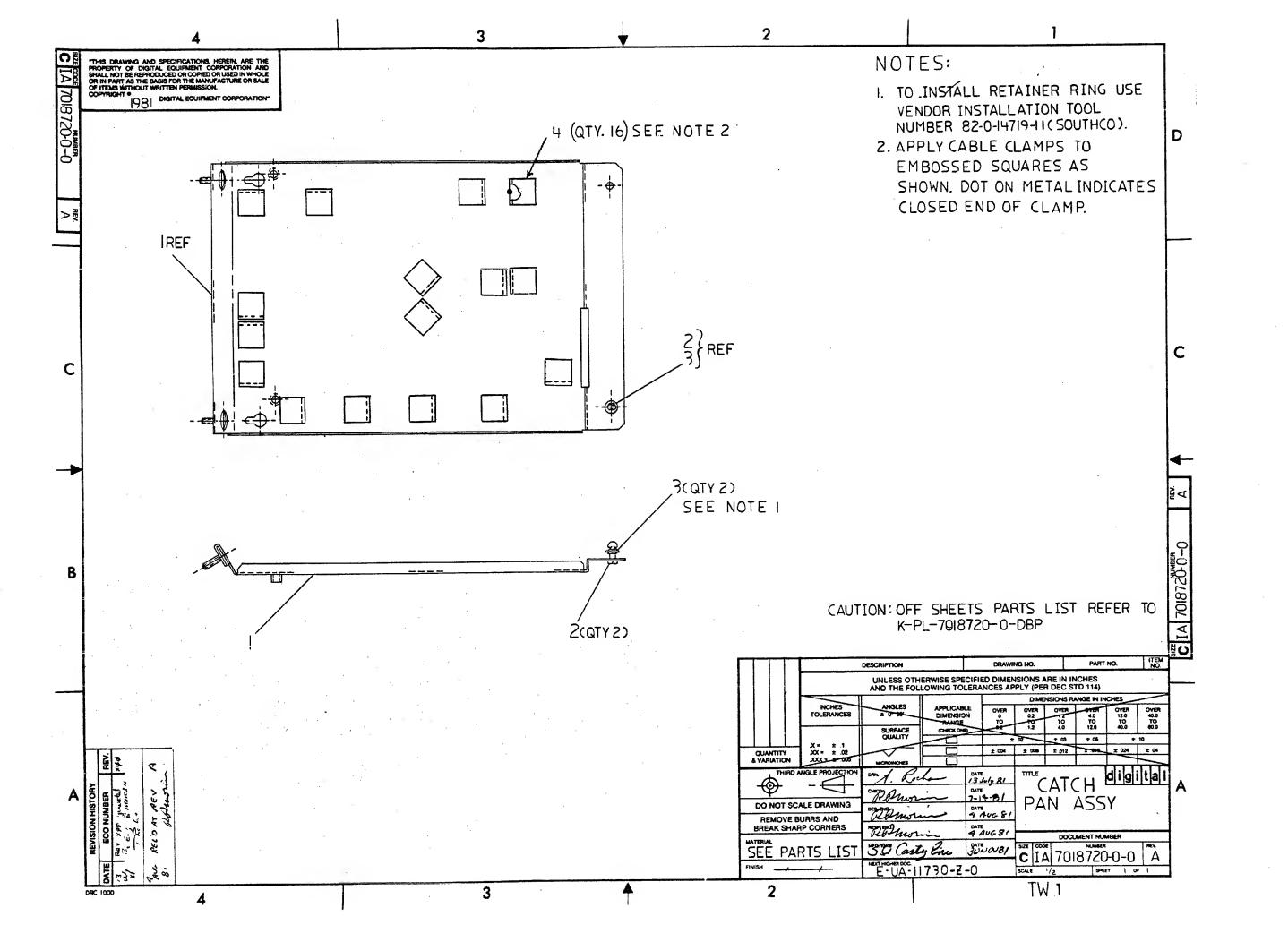


AUTOMATED BY PRILST.SP(44)	PART NUMBER	FARTS LIST DESCRIPTION		CUANTITY PER VARIATION
HOLD TO OLD FEED OF THE STATE O	1213901-03 1213941-00 12195620-00 12195620-00 9107734-33 9107736-00 9107255-01	CONN.PLUG MPIN CONN MSKT CONN MSKT CONN PIN 18-16A SKT 15-19AN. REE TIE.CABLE BUNDL.DIA 0- 3-4 WIRE.STRND.18ANG ULI	113 1100 1100 1100 1100 1100 1100 1100	

SHEET AL OF AL

10 NOTE: : ITEMS 6,7 AND 8 ARE IN INCHES.

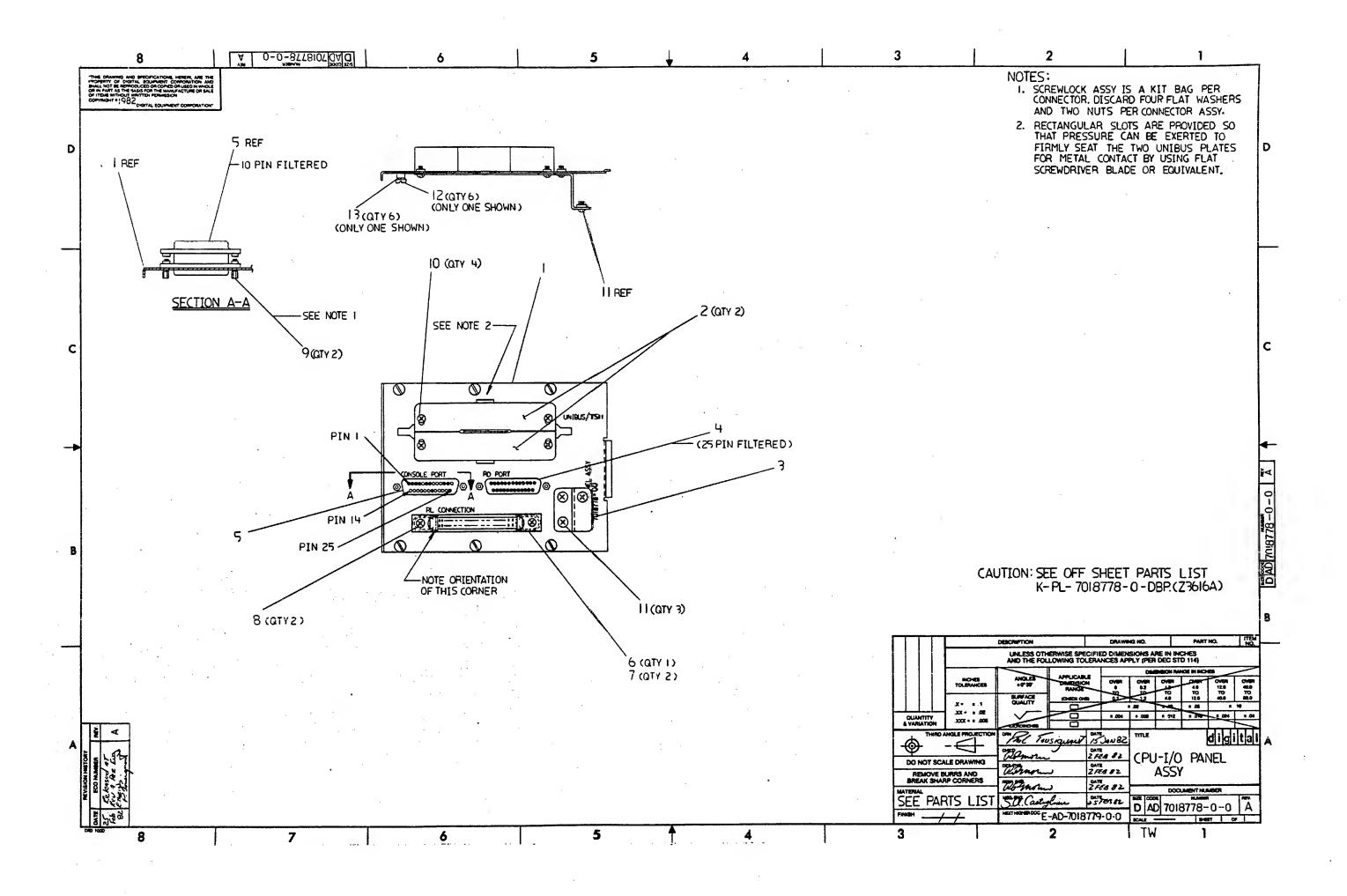
 ! !	REVISION HISTORY	++++	BASIC PART NO	-+++++++++	DRN:	F.	TOUSIGNANT	DATE:	28-JUL-81	!	D	IG	IIT		4 L
ENG!	ECO NUMBER	1	SECTION A OF	-++++++++++	! ++++++++ !					TITLE	+!+++	PARTS	LIST	+:+÷	-+:++
	INITIAL	A	SECTION. VARI	ATION INDEX	!CHK'D: !++++++++	9. +-+	ROCHA 	DATE:	 	TUS	9 POW	ER CABLE			;
			[8]	*	DES.ENG.:	R.	MORIN	DATE:	28-JUL-8:	! ! !		*			
			[C]		RESP.ENG.	₽.	MORIN	DATE:	28-JUL-91	+++++	++++	DOCUMEN	T NUMBE	R ++++	-++++
		7 7	[0]		+++++++++		++++++++	+++++	++++++++	SIZE	CODE	NUMBER		. !	REV
			[E]		MFG.ENG.:	S.	CASTIGLIONE	DATE:	28-JUL-81	K	PL !	7018109	3-C-D8P		A -++++
			[F]		ASSEMBLY N D-IA-70181	UMB: 05-		TOP D	CUMENT NUMI 1730-Z-0	BER:		FILE NA 21853A	ME: PLS	. i e	DIT :
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AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER PAR	RT NUMBER	PARIS DESCRIPTION	LIST	QUANTITY 00	PER VARIATION	1	SHEET A1 OF A1
2 2 901 900	25728-00 10308-00 10026-05 19636-00	PAN, CATCH RETAINER, PUSH-ON FASTNR, 1/4 TURN, WI CLAMP, CABLE, FOR F	SS/PAS ING HD FLAT CABLE	16 16			

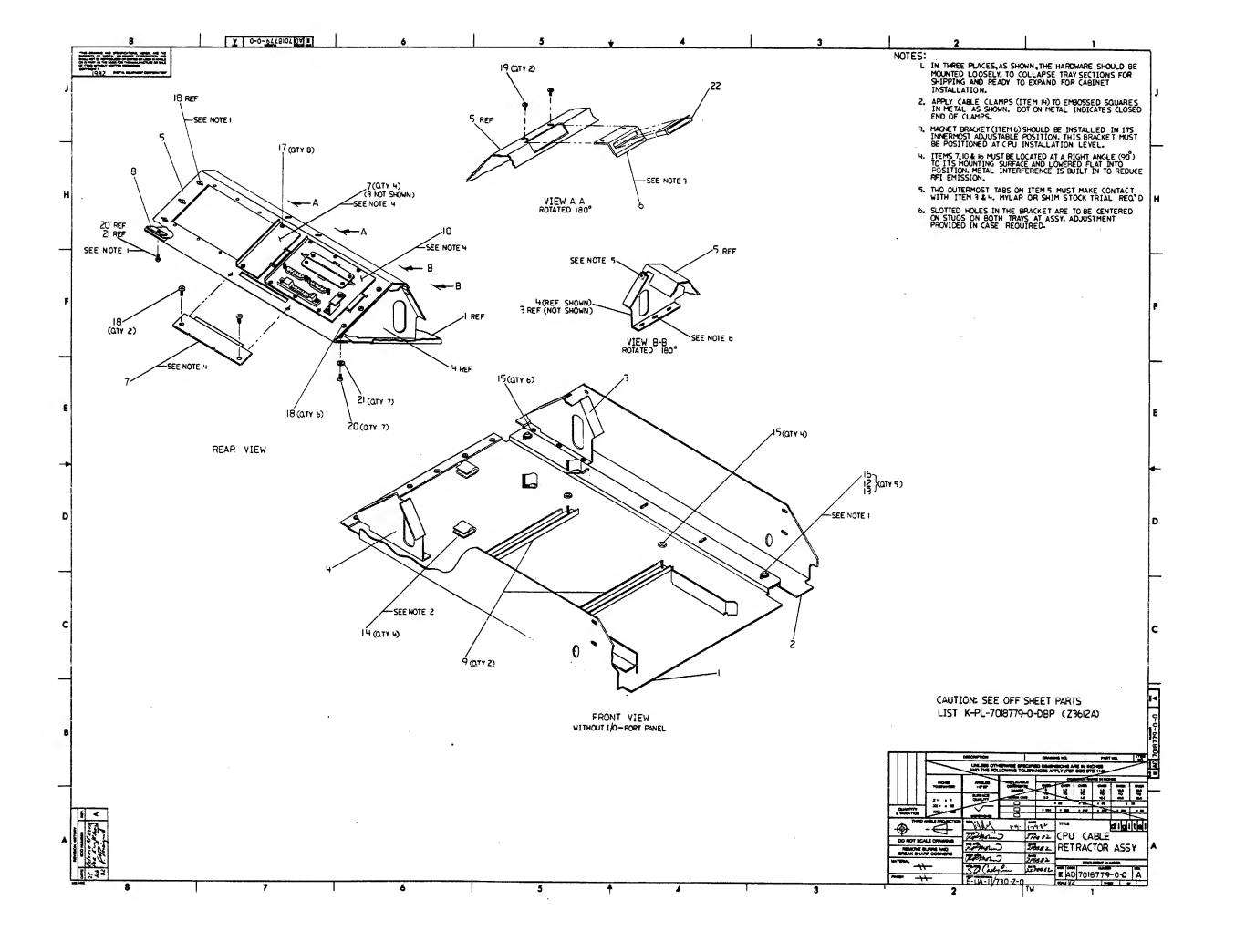
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t++++	REVISION HISTORY	++++	BASIC PA	+++++++++ RT NO: 701 +++++++ A OF A	+++++ B720 +++++	++++++++ DRN: ++++++++	P.	TOUSIGNANT	DATE:	30-JUL-81	+++++ TITLE	D +++	I G PARTS	I T	A L
+++ 	++++++++++++	++++	SECTION.	<b>+++++++++</b>	INDEX	CHK'D:	A.	ROCHA +++++++	DATE:	30-JUL-81	!	H PAN	I ASSY	213.	
			[8]			DES ENG :	R. ←←←	MORIN	DATE:	30-JUL-81	i ++++++		COLUMEN	+++++++ T NUMBER	-+++++
			[C]			RESP.ENG.:	R.		DATE:	30-JUL-81	SIZE:C	-+++	++++++	+++++++	REV
			(E)			MFG.ENG.:		CASTIGLIONE	+++++	+++++++++	. ++++	:			A +++++
			(F1			ASSEMBLY N C-IA-70187	20-0	R: 3-0	E-UA-	OCUMENT NUM 11730-Z-0			FILE NA Z2835A.	PLS +++++++	EDIT #
+++	"THIS DRAWING OR COPIED OR	HHH ND SI ISED	PECIFICAT IN WHOLE	IONS HEREI OR IN PART COP	N ARE AS TH YRIGHT	THE PROPER E BASIS FOR (C) 1981.	TY (	OF DIGITAL EQUENTE MANUFACTURE	JIPMEN OR SA CORP	T CORPORATI LE OF ITEMS ORATION	ON AND WITHOU	SHALL T WR]	NOT BE	REPRODUCE RMISSION	ÈD 



AMOTUA	TED	BY PRTLST.3P(54)	•	PARTS LIST	QUANTITY PER	HAPTATION
LINE I	TEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	00	AUCTULION
1	1	D-IA-7426405-04-DBU	7426405-04	PANEL, SEXTAL	1	
2.	2	B-IA-7018781-0-0	7018781-00	BRKT. ASSY, UNIBUS FILLER	<b>2</b> .	
3	3	C-IA-7426654-0-0	7426654-01	BRACKET, CABLE GROUND	1	
4	4	A-FS-1217431-0-0	1217431-00	CONN, D. SUB 25POS ASSY STRAIGHT W	1	
5	5	A-PS-1217431-0-0	1217431-02	CONN,D SUB 10POS ASSY STRAIGHT W	<b></b>	
4	6	A-FS-1211591-0-0	1211591-35	CONN, ZIF 40PIN RCPT ASSY	1	•
7	7	A-PS-1211591-0-0	1211591-38	CONN, ZIF 40PIN RCPT, SWAP IN GU	2	
á	ģ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9006010-01	SCREW, PAN, PHIL 4-40X 5/16 SS	2 .	
			9008451-00	SCREW LOCK-ASSY	2	
10	10		9009546-00	SCREW, PAN, PHIL, SEMS 4-40X .375L	4	•
11	11		9010174-00	SCREW, PAN, PHIL, SEMS 6-32X .25 L	<b>3</b> .	
. 12	12	A-PS-1219534-0-0	1219534-01	SCREW, CAPTIVE, SLTD HD 4-40X.60LG	6	
13	13	H 13 121/304 V V	9004488-00	WASHER, LOCK, S.S. #4	6	

 f	EVISION HISTORY	; <del></del>	!BASIC PAR	RT NO: 701		! !DRN:	P.	TOUSIGNANT	! !DATE:	27-JAN-82	!	! !	. ! ) ! ·	! I ! G	! ! ! I !	T !	A ! L
ENG!	ECO NUMBER	!REV	SECTION A	A OF A		!			! !		ITITL	<u>- !</u>	!-	PARTS	LIST	!_	!
!	INITIAL		!SECTION.	VARIATION	INDEX	!CHK'D:	R•			27-JAN-82		J-I/(	3 PA	NEL AS	SY:	·	:
!	•	1	! ! [B]			! !DES.ENG.:	R.	MORIN	! !DATE:	27-JAN-82	!	. :					
!. !		!	ECI		٠	! !RESP.ENG.:		MORTN	IDATE	 27-JAN-82	!			OCUMEN	ד אָטאַד	ER	
!	•	!	ED3	-		!			!		!SIZE	! CODE		UMBER		· . i	REV.
!		1	i cea	•	·.	!MFG.ENG.:	s.	CASTIGLIONE	DATE:	27-JAN-82	I. K	! PL	1.7	018778	-0-DBF	i	A
· !		! !	! ! CFJ !	•	• •	ASSEMBLY N	UMBE 78-0	ER: )-0		DCUMENT NUM 7018779-0-0		:·		ILE NA 3616A.		! !	EDIT 8
!	THIS DRAWING OR COPIED OR	AND 3 USED	PECIFICAT IN WHOLE	OR IN PAR'	r as th	IE BASIS FOR	·THE	F DIGITAL EQ MANUFACTURE TAL EQUIPMEN	UK SAI	FF OF TIEWS	ON AN WITH	He a	ĀĻĒ WRIT	NOT BE	REPRO	DOUCE LON.	



ETAMOTUA	BY PRTLSST-3P(44)		PART.S LIST.		SHEET, A1 OF A1:
LINE ITE	OOCUMENTT MUMBER	PART NUMBER	DESCRIPTION	RESTAIRANT PER VARIATION BOOT	•
1.	1 D-IX-70112549-0-0	7018549-00	SETRACTOR TRAY RIVETED	1.	•
2	2 E-IA-74225733-0-0	7425733-88	TRAY, R.H. HALF	1	
3	3 E-IA-74726619-0-0	7426619-31	I/O PANEL BRKT. (RIGHT)	ī	
A	4 E-IA-74325519-Ø-Ø	7426619-22	I/O PANEL BRKT. (LEFT)	<u>1</u> :	•
5	5 • E-IA-7422 <del>6</del> 618-0-0	7426618-01	I/O PORT PANEL	1	
<u> </u>	6 C-IA-74225520-0-0	7426620-01	BRACKET, MAGNETIC	1 0	
<u> </u>	7 · C-ND-74226621-0-0	7426621-01.	COVER, PLATE-R88 HOLE	ī:	
Ŕ	8 B-IA-74225652-Ø-Ø	7426652-31	NUT PLATE	ĩ	
. 0	9 C-IA-70118772-0-0	7018772-00	CLAMP ASSY	ž	•
19 1	Ø D-AD-70118778-0-9	7918778-39	CPU-11/O PANEL ASSY	1	•
11 1		7426407-31	PANEL, SUB, DOUBLE	<b>i</b>	
12 1		9006664-00	WASHER, FLAT, .437 OD X .218 ID	5.	
13 1	3	9007651-20	WASHER, LOCK, EXTERNAL TOOTH #19	Š.	
14 1	4	9009636-00	CLAMP, CABLE, FOR FLAT CABLE	1 ·	•
	5	9886563-88	NUT, KEP 8-32X 11/13AF	14	•
16. 1	6 .	9006071-03	SCREW, TRUS, PHIL, 10-32X 3/8	5	
17 1	7	9009546-00	SCREW, PAN, PHIL, SEMS 4-48X .375L	A	•
	8	9010174-00	SCREW, PAN, PHIL, SEMS 6-32X .25 L		
19 1	9-	9010174-01	SCREW, PAN, PHIL, SEMS 8-32X .31 L		
201 2		9906037-33	SCREW, TRUS, PHIL, 8-32X 3/8	ī	
	1	9008151-00	WASHER, LOCK, EXT. TOOTH #8	į	
	2 A-PS-121C2908-0-0	1212908-01	DOOR CATCH, MAGNETIC, SNAP-IN	1	
				*****************	*****

	VISION HISTORY	L.	BASIC PART NO: 7818779	IDRN:	R.J. RILEY	IDATE: 27-JAN-82		1 1 6 1 7 1 7 1	
īĠŢ	ECO NUMBER	IREV	SECTION A OF A			1	11	1111	
:= <u> </u>	NITIAL	1 A	SECTION. VARIATION INDE	CICHK'D:	R.J. RILEY	DATE: 27-JAN-82	1	PARTS LIST LE RETRACTOR ASSY	•
1 1 1			l I CBJ I	IDES.ENG.:	R. MORIN	 	! !		
1	•	1	( EC) ( . ( ED)	RESP.ENG.:	R. MORIN	1 IDATE: 27-JAN-82	I ISIZEICODEI	DOCUMENT NUMBER	1 REV
!		1	(E)	IMFG.ENG.:	S. CASTIGLIONE	1 IDATE: 27-JAN-82	1 1 1	7018779-0-DBP	1 A
i		1		IASSEMBLY NI IE-AD-70187		TOP DOCUMENT NUM E-UA-11730-Z-0		FILE NAME: Z3612A.PLS	IEOIT.

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EN-01189-16 REVE(33L)

		EQUIPMENT C			
PACKAGINO	INSTRUCTIO	N	REV:	DATE:	
TITLE PKG	11730-ZA				
		LEGEND			
VARIATION	USED OF	N PACKAGE TY	PE	REMARKS	
3700662-01	11730-ZA				
	Р	ARTS LIST 37006	62-01	*	
RE	FER TO OFF-SH	EET PARTS LIST	K-PL-370	0662- <b>0-</b> DBP	
	PACKAGI	NG INSTRUCTIONS	3700662	-01	,
STEP	PROCED	URE FIGURE 1 AN	D 2	·	
SE	IT TWO (2) PI EVEN (7) FEE 1906199-00).	ECES OF PDLYEST ET LONG AND L	ER STRAF	PPING (9905734-02) ON THE PALLET	
		END DF THE DIE NO (2) STRAPS.	CUT TRA	Y (9906832-01) AND	
3. SE	T UP THE DIE	CUT SHEET (9906	933-01).		1
T	ACE RETRACTO HAT THE ANGL DRRUGATED SQUA	LED CABLE CONN	-00) ON ECTOR R	DIE CUT SHEET SD ESTS AGAINST THE	
5. W	RAP THE SHEET	AROUND THE RETR	ACTOR TR	AY.	
50	O THAT THE COL	PED RETRACTOR T RRUGATED SQUARE OF THE DIE CUT	ON THE S	THE DIE CUT TRAY HEET RESTS AGAINST	
0	APE ONE (1) PO F THE CPU BO ILAMENT TAPE	OX USING FIFTE	SSY (7018 En (15)	718-00) TO THE TOP INCHES OF GLASS	
	LACE A POLYET SSEMBLY.	HYLENE BAG (990	5128-23)	DVER THE CPU UNIT	
T	HAT THE BEZEL	BDX INTO THE OF THE CPU UN BE DIE CUT TRAY.	WRAPPED IIT ASSEM	RETRACTOR TRAY SO MBLY IS FACING THE	
		DPEN END OF THE	DIE CUT	TRAY.	
SHEET 4 6 9	APPD	m H. Barret	SIZE CODE	NUMBER 3700662-0-0	REV
Marin	12001 Yea				

SHEET\_\_\_\_1\_OF\_\_

		1	
1.	PLACE ONE (1) HALF SLOTTE CPU UNIT ASSEMBLY AND INT TOP FLAPS OPEN.	O THE DIE CUT	TRAT. LEAVE 'N
2.	PLACE EACH OF THE FOLLD SPECIFIED, INTO A PLASTI THEM ON THE FDURTH PAN (9906786-00):	C BAG (990655	7-14) AND PLAC
ITEM	I DESCRIPTION	I PART NUMBER	IQUANTITY I
	GUIDE AND CLAMP	7425927-00	1
В	SHIPPING BRACKET	7413659-00	1
c	BRACKET, CARRIER/BOX	7425928-00	1
D	BRACKET, CAB/CARRIER	7425929-00	1 1
E E	CABLE, FERRULED	1215700-04	1
F	CABLE CARRIER	121902-00	1 1
G	CLAMP, R80 CABLE	7426623-01	1
! <del>- н</del>	CLAMP, DMF CABLE	7426625-01	1 1
<del>                                     </del>	BAR CLAMP ASSY	7426723-01	1
-	STUD PLATE	7426335-01	4
K	SLIDE MTG BRKT, LEFT	7425734-00	2
<u> </u>	SLIDE MTG BRKT, RIGHT	7425734-01	2
•	•		
		-	
		A PA 37	BER REV 00662-0-0 A

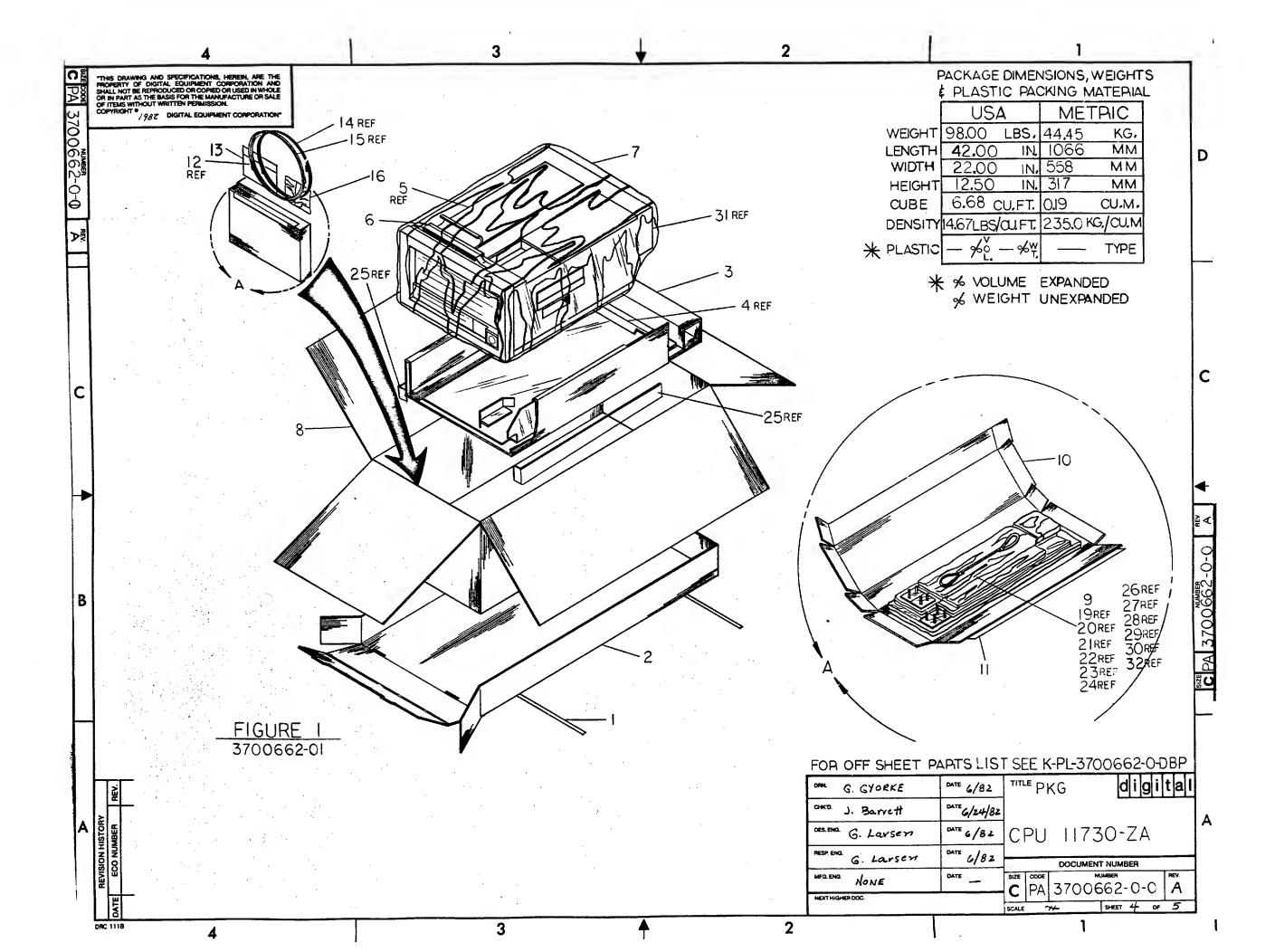
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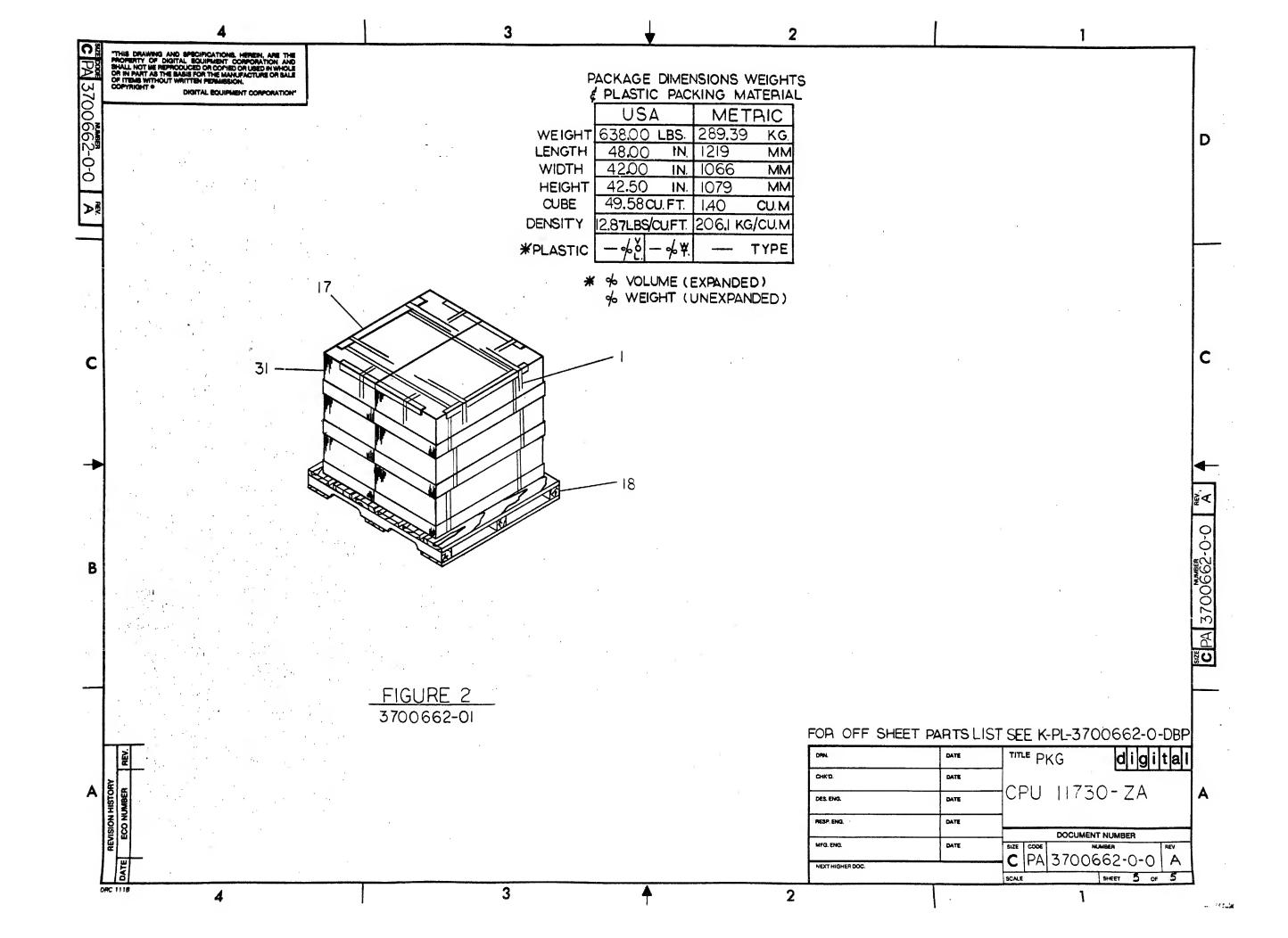
PACKAGING INSTRUCTION

CONTINUATION SHEET

CONTINUATION SHEET

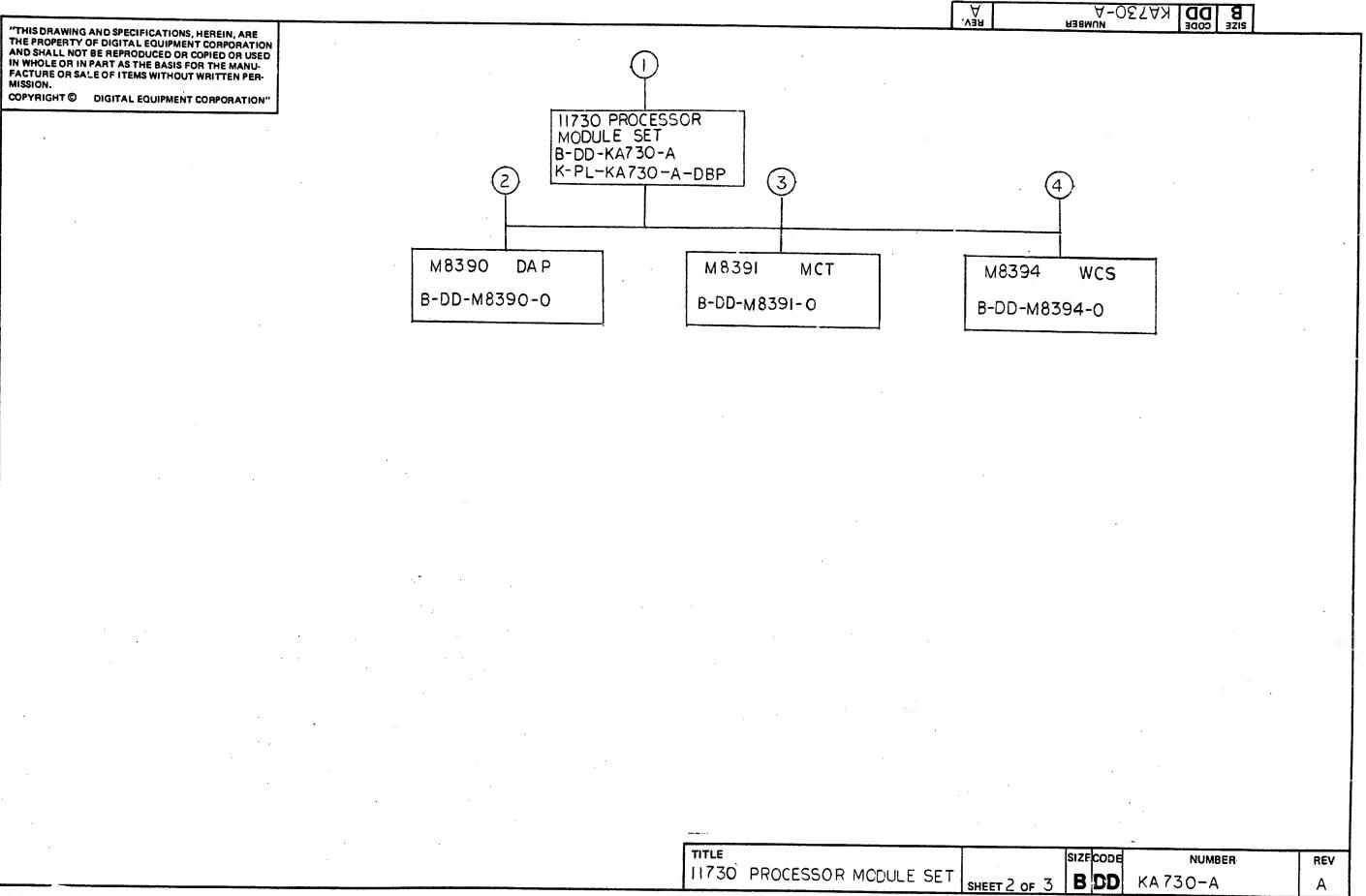
TITLE CPU 11730-ZA PKG CLOSE AND SEAL THE FIVE PANEL FDLDER USING TWENTY-FDUR (24) INCHES OF CARTON SEALING TAPE (9905729-00). 13. PLACE THE SEALED FIVE PANEL FOLDER INTO THE HALF SLOTTED CARTON IN FRONT DF THE CPU BEZEL.
CPU 11730-ZA 14. PLACE DNE (1) TUSE-K MEDIA CARTRIDGE (3615809-00) INTO A BUBBLELITE ENVELDPE (9905012-05) AND PLACE DN TOP DF THE FIVE PANEL FOLDER. 15. PLACE DNE (1) AC LINE CORD (1700083-21) AND DNE (1) AC LINE CORD 1700083-22) INTO THE HALF SLOTTED CARTON ON TOP OF THE FIVE PANEL FDLDER. 16. PLACE A HARDWARE KIT BAG (B-PL-11730-Z-5) INTO THE HALF SLOTTEO CARTON ON TOP OF THE AC LINE CDRDS. 17. PLACE TWO (2) SLIDES (1218166-00) AND HARDWARE KIT BAGS, ONE (1) ON EACH SIDE OF THE CPU UNIT ASSEMBLY BETWEEN THE INSIDE OF THE HALF SLOTTED CARTON AND THE WRAPPEO RETRACTOR TRAY AS SHOWN IN FIGURE 1. 18. CLOSE THE FLAPS OF THE HALF SLOTTED CARTON. 19. SEAL THE CARTON BY CLAMPING THE TWO (2) STRAPS AROUND 20. THE CARTON. PALLETIZE PER FIGURE 2 USING FOUR (4) ANGLEBDARD (9906185-05) AND FDUR (4) PIECES DF STRAPPING (9905734-02). 21. SIZE CODE NUMBER A 3700662-0-0 SHEET 3 OF 5





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TW



FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.		DESCRIPTIO	N	TYPE
	B-DD-KA730-A K-PL-KA730-A-DBP	11730 MODULE SET-DWG DIRECTORY 11730 MODULE SET-PARTS LIST							
2	B-DD-M8390-0	M8390 DAP MODULE - DWG DIRECTORY	E/M						
	D-UA-M8390-0-0 K-PL-M8390-0-DBP D-BD-M8390-0-0	M8390 DAP MODULE - DWG DIRECTORY  DAP UNIT ASSEMBLY  DAP PARTS LIST  DAP BLOCK DIAGRAM  DAP CIRCUIT SCHEMATICS	E   F						
	D-GL-M8390-0-X	(D-CS-M8390-0-DAPA THRU -DAPM) DAP ROM AND PAL LISTINGS							
マ	B-DD-M8391-0	M8391 MCT MODULE - DWG DIRECTORY							
	D-UA-M8391-0-0	MCT UNIT ASSEMBLY	E/M 						
_	D-GL-M8391-0-1	MCT BLOCK DIAGRAM  MCT CIRCUIT SCHEMATICS  (D-CS-M839I-O-MCTA THRU -MCTN)  MCT ROM AND PAL LISTINGS  MCT FLOW DIAGRAMS							
	D-FD-M0391-0-X	(D-FD-M839I-O-I THRU -2!)							
4	D-UA-M8394-0-0	M8394 WCS MODULE — DWG DIRECTORY WCS UNIT ASSEMBLY							
ł	コスニウに こんりょひき ニハニコピレ	WCS PARTS LIST WCS BLOCK DIAGRAM WCS CIRCUIT SCHEMATICS (D-CS-M8394-O-WCSA THRU -WCSR)	E						
	D-GL-M8394-0-1	WCS ROM AND PAL LISTINGS							
									#
									#
				TITI			_   SIZE  COD	DE NUMBER	REV
	PE: E ELECTRICAL M MECHANICAL E/M ELECTRO/MECHANICAL B 108A		digital	117	30 PROCESSOR M	ODULE SET	SHEET 3 OF 3 B DI	N KA730-A  TW	Α

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		•			
AUTOMATED.	BY PRTLST.3P(44)		PARTS LIST		SHEET A1 OF A1
		BASE 100055	DESCRIPTION .	QUANTITY PER VARIATION	(·)
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	Α	· ·
	•	•			
1 1	B-DD-M8390-0	M8390-00	DAP (DATA PATH)	1	•
2 2	B-DD-M8391-0	M8391-00	MCT (MEMORY CONTROLLER) HEX	1	
3 3	B-DD-M8394-0	M8394-00	WRITEABLE CONTROL STORE, HEX, FOR	1	
********	****************	***********	### RELEASABLE	*****************	**************

MFG.ENG.: S. CASTIGLIONE   DATE: 03-MAR-82   K-   PL   KA730-A-DBP   A	NG!	ECO NUMBER	! REV	SECTION A OF		!		ROCHA *	. <del>!</del>		!TITL	<u>!</u>	PARTS LIST	!!_
CD3  RESP.ENG.: D. LANDRY DATE: 03-MAR-82	! !	INITIAL			TION INDEX	!CHK'D: :	, D.	LANDRY				730 PF	OCESSOR MODULE S	E <b>T</b>
RESP.ENG.: D. LANDRY   DATE: 03-MAR-82	!	•	!	i cbj		! !DES.ENG.	. D.	LANDRY	!DATE:	03-MAR-82	! !	•	-	
[D]   SIZE CODE   NUMBER   F	!		! ! ! .	; CC3	•	!		· ·	•	03-MAR-82	!		DOCUMENT NUMBER	 
ASSEMBLY NUMBER: TOP DOCUMENT NUMBER: . ! FILE NAME: ! ELE			!	. כסז	,	!	:		:! <u></u> !,;		!SIZE	!!	•	! REV
i i FL3 i HOOFIDE! HOUDERA	Ī		! . !	! CEJ		!MFG.ENG.	: s.				! K~	! PL !	KA730-A-DBP	!·A -!
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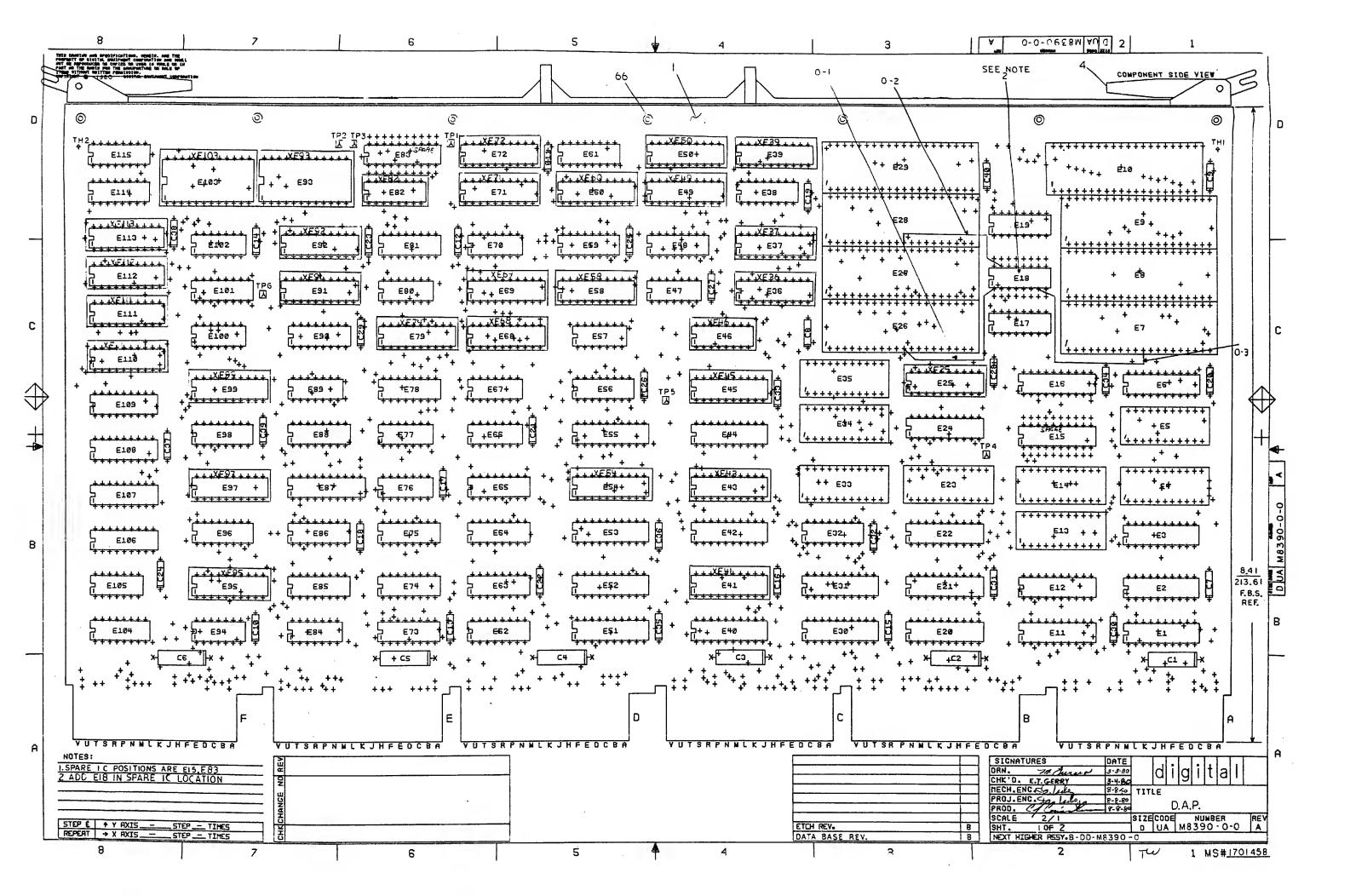
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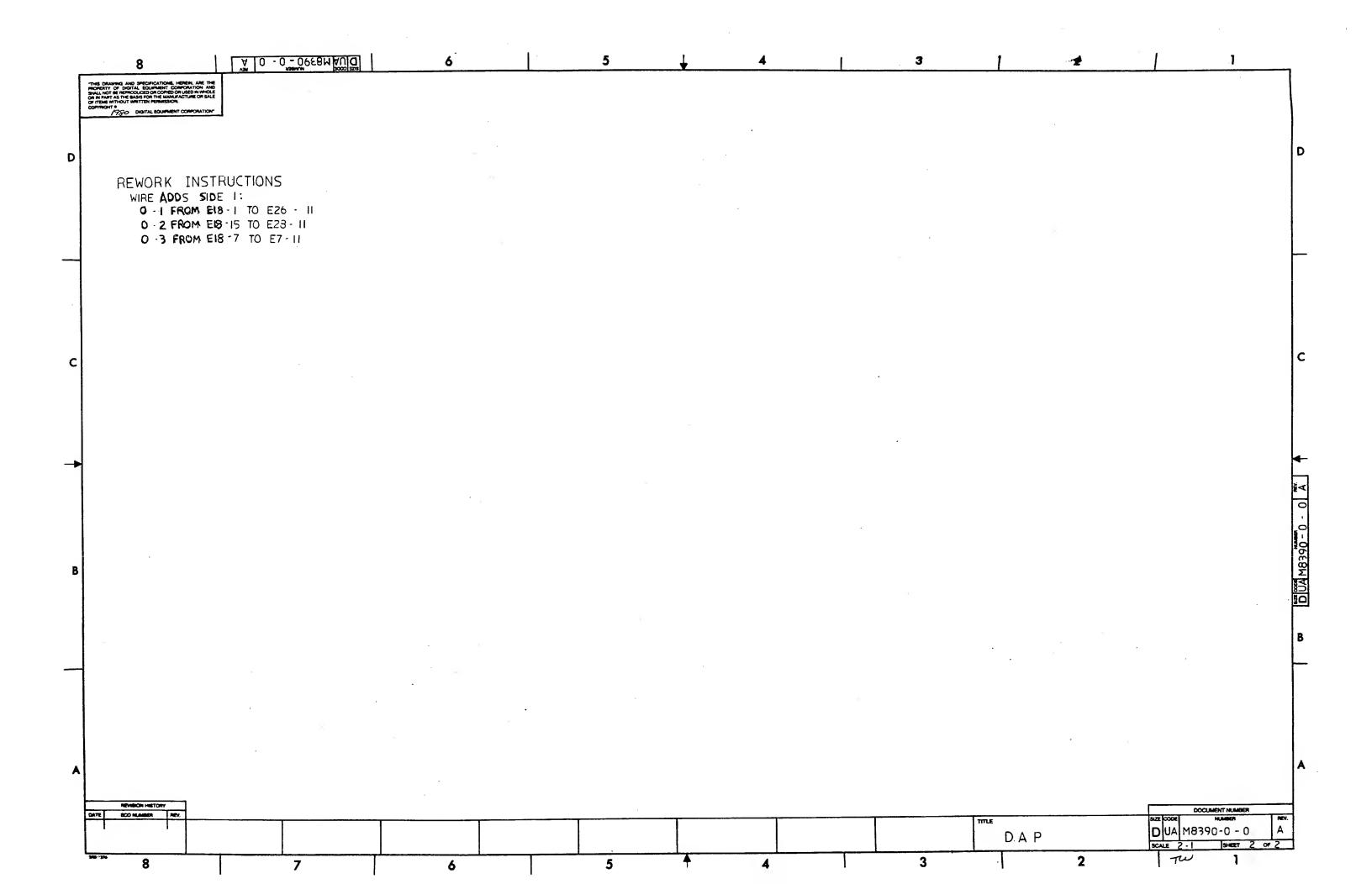
SIZE CODE NUMBER DRAWING NO. PART NO. **REVISIONS DESCRIPTION** AB MODULE REVISION A B 1 DRAWING DIRECTORY B-DD-M8390-0-0 A A 2 UNIT ASSEMBLY B-UA-M8390-0-0 A B 2 K-PL-M8390-0-DBP PARTS LIST ВВ ETCH BOARD REVISION 5013860 A B DESIGN DATA BASE PC K-PC-5013860-0-DBC 5 DRILL AND ETCH DRAWING D-MD-5013860-0-0 AB 3 ETCH CUT DRAWING D-EC-5013860-0 AB DESIGN DATA BASE SUDS K-CS-M8390-0-DBS A B MICRO WORD DECODE AND REG ADDR GEN 1 D-CS-M8390-0-DAPA A B 1 DATA PATH CLOCKS AND CONTROL D-CS-M8390-0-DAPB AB 1 DATA PATH AND LS (HIGH WORD) D-CS-M8390-0-DAPC AB DATA PATH AND LS (LOW WORD) D-CS-M8390-0-DAPD 1 A B 1 BUS IB AND BUS D DRIVERS D-CS-M8390-0-DAPE A B 1 BUS NAD AND BUS IB CONTROL D-CS-M8390-0-DAPF A B OS MUX AND CC CONTROL D-CS-M8390-0-DAPH 1 A B CONTROL STORE REG AND SEQUENCER 1 D-CS-M8390-0-DAPJ AB 1 MICRO PC AND INTERRUPT CONTROL D-CS-M8390-0-DAPK A B 1 CONSOLE INTERFACE AND CONTROL D-CS-M8390-0-DAPL Ав FILTER CAPACITORS 1 D-CS-M8390-0-DAPM ∝ A DATA PATH BLOCK DIAGRAM 1 D-BD-M8390-0-0 A 13 ROM AND PAL LISTINGS D-GL-M8390-0-0 11/730 CONTROL STORE FORMATS D-BD-M8390-0-1 1 A D-TD-M8390-0-0 11/730 CPU MICRCOYCLE TIMING 
 DATE
 CHG NO.
 REV.

 XXXXXXXXXXXXXXXXXX
 12-81
 TW001
 B
 **NOTES:** \*CONTROL STORE IS THE SUDS DATA BASE NO CONTROLLED PAPER ORIGINALS EXIST 7-15-80 TITLE DRN. **USED ON OPTION/MODEL** J. CASEY 'THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-DAP PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D J. CASEY 7-15-80 NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE NUMBER REV. ITEMS WITHOUT WRITTEN PERMISSION. S. LACKEY M8390-0 В PROD. C. CONSIDINE COPYRIGHT® 1981 DIGITAL EQUIPMENT CORPORATION 8-8-80 SHEET 1 OF

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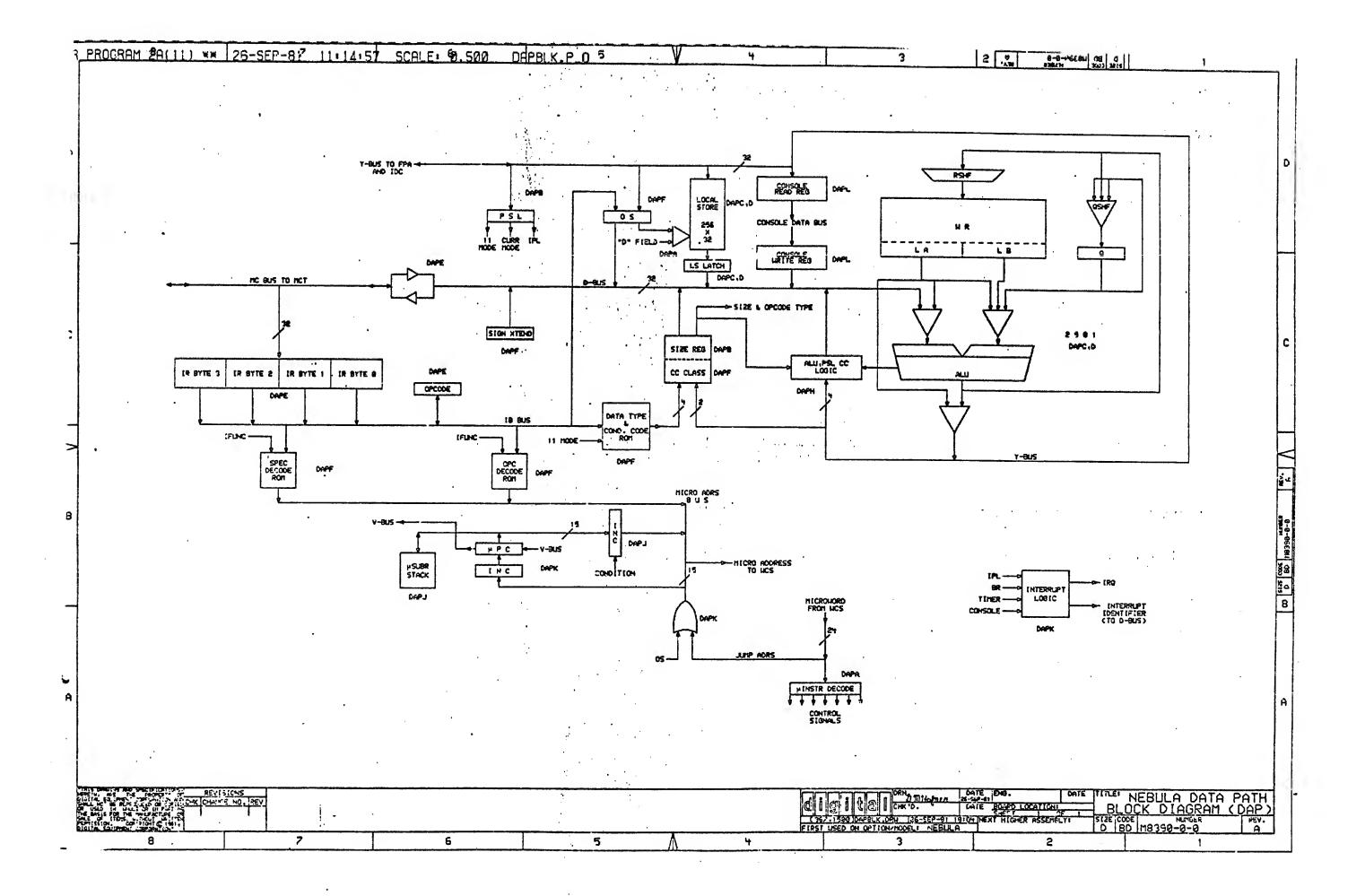
D-MD-5013860-0-0   S013860-00   DAP		MATED BY PRILS	NUMBER	PART NUMBER	PARIS LIST DESCRIPTION	QTY PER VARIATIO	ON SHEET AL OF REFERENCE DESIGNATOR
19	→nJC+LDG	ao-con			8 MFD 25V +75-10% AL EL .047 MFD 50V +80-20% CER HANDLE, MODULE, HEX TWO EJECTORS SKT, IC 16PIN DIP TIN PLATE SKT, IC 20PIN DIP TIN PLATE	R 34 2 26 CONT CONT	C1-C6 C7-C40 XE46, XE82 XE36, XE37, XE39, XE41, XE43, XE45 XE49, XE37, XE34, XE58, XE60, XE68 XE69, XE71, XE72, XE79, XE91, XE92
ENG ECO NUMBER REV SECTION A OF A CHK'D: E.T.GERRY DATE: 27-FEB-80 TITLE PARTS LIST NAME OF A CHK'D: E.T.GERRY DATE: 27-FEB-80				1215006-06 1311003-01 1910532-00 1910534-00 1910539-00 1910549-00 1910549-00 1910549-00 191055-00 191055-00 1911579-00 1911641-00 1911675-00 1911675-00 1912097-00 1912388-00 1912586-00 1912648-00	SKT, IC 24PIN DIP TIN PLATE R NETWORK 14-180 14-390 16PIN 74S00 NAND GATE-QUAD ZIN 74S04 INVERTER GATE-HEX II 74S10 NAND GATE-DUAL 4INPU 74S64 A-O-I GATE 4-2-3-2 74S153 MUX 1 OF 4 (DUAL) 74S158 MUX 1 OF 2 (QUAD) 74S151 MUX 1 OF 8 74S175 FF-D QUAD COMMON CLO 17AS151 MUX 1 OF 8 74S175 FF-D QUAD COMMON CLO 8641 TRANSCEIVER, BUS, QUA SN 74S257 MUX, QUAD 2 TO 1 74S138 DECODER/DEMUX 3-8 LIN 74S139 DECODER-DUAL TWO-INP 74S131 AND-OR GATE-INVERT D SN 74S182 LOOK AHD CARRY GEN 74S02 NOR GATE-QUAD ZIN, PO DM 85S68N REGISTER, 64BIT EDGE LS251 MUX 8 INPUT, TRI-STA	T. E. Ervroro	XE111-XE113,XE25 XE111-XE113,XE25 XE13,XE103 E57,E89 E67,E77 E100 E94 E32 E56,E78,E90,E98,E101,E114 E81,E88 E64,E75 E74,E75 E74,E75 E74,E105 E17,E19 E70,E76,E80,E84 E106-E109 E96
	CNO I	ECO NUMBER INITIAL 18390-TWOO1	REY SECT LAB LOD LEFT LAB LOD LAB LOD LEFT LAB LOD LAB L	ION A OF A  ION. VARIATION INDE  OU  I  I	CHK'D: E.T.GERRY DATE  DES.ENG: S.LACKEY DATE  RESP.ENG.: S.LACKEY DATE  MFG.ENG.: J.CONSIDINE DATE  ASSEMBLY NUMBER: TOP  D-UA-M8390-0-0 B-DI	E: 27-FEB-80 E: 27-FEB-80 DA E: 7-29-80 ++++ E: 7-29-80 ++++ DE: 8-AUG-80 DOCUMENT NUMBER: D-M8390-0-0	PARTS LIST  PARTS LIST  DOCUMENT NUMBER  CODE NUMBER  PL M8390-0-DBP  FILE NAME:  Z1259B.PLS  18

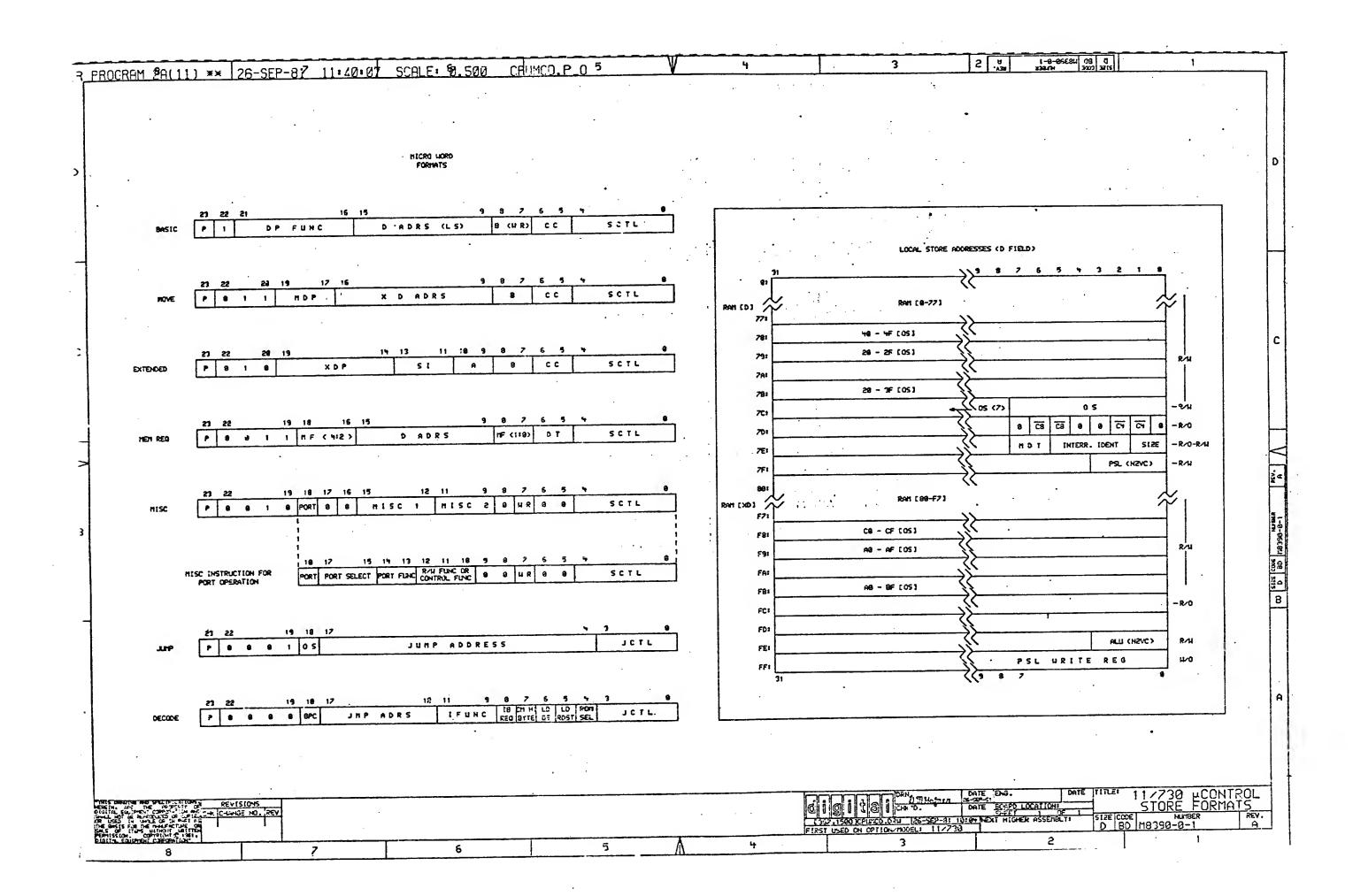
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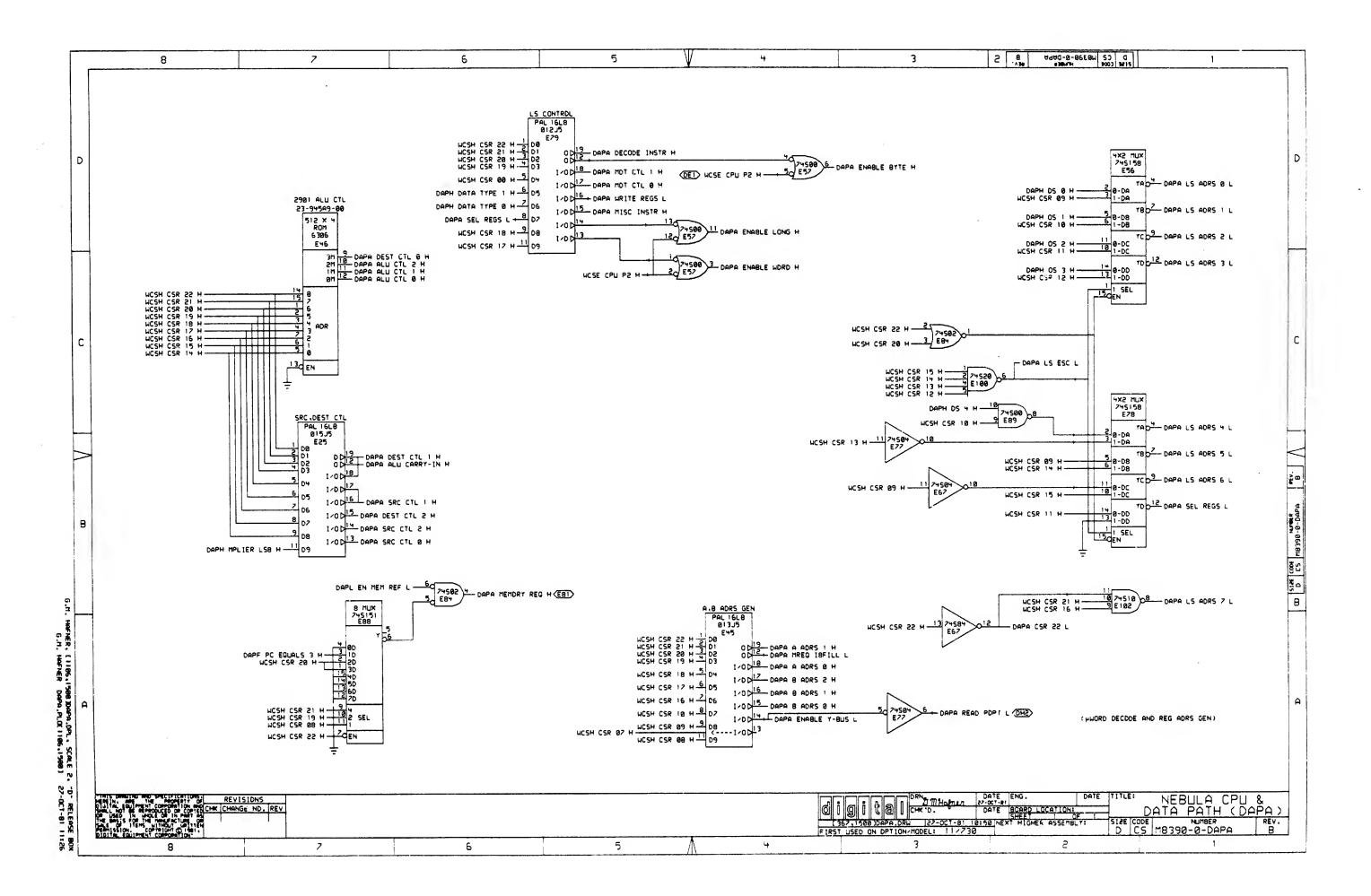
AUTOMATED BY PRTLST.3M(41) LINE ITEM DOCUMENT NUMBER PART	PARIS LIST OF SHEET AZ OF OUMBER DESCRIPTION OO REFERENCE DESIGNATOR	A2
27 27 19126 28 28 19127 29 29 19127 30 30 19128 31 31 19128 32 32 19136 33 33 33 19136	745253 MUX 1 OF 4 (DUAL) 2 E59,E61 745-00 DEC 74537 NAND GATE-QUAD 2IN 1 E65 796-00 74148 EXCODER, PRIORITY, 8 T 1 E65 860-00 LS259 LATCH 8BIT 1 E115 865-00 LS283 ADDER-4BIT BINARY FU 1 E115 870-00 2901A MICROPROCESSOR-4 BIT 8 E7-E10,E26-E29 875-01 745373 LATCH 8BIT TRASP TR 7 E3,E6,E12,E16,E21,E22,E24 871-00 745374 FF-D OCTAL TRISTATE 10 CONT E8?	55.
191500000000000000000000000000000000000	795-00 79148 EXCODER PRIORITY, 8 T 1 860-00 LS253 LATCH 8811	###
D I G I T A L	SECTION A OF A  K PL M8390-0-DBP  B	+++

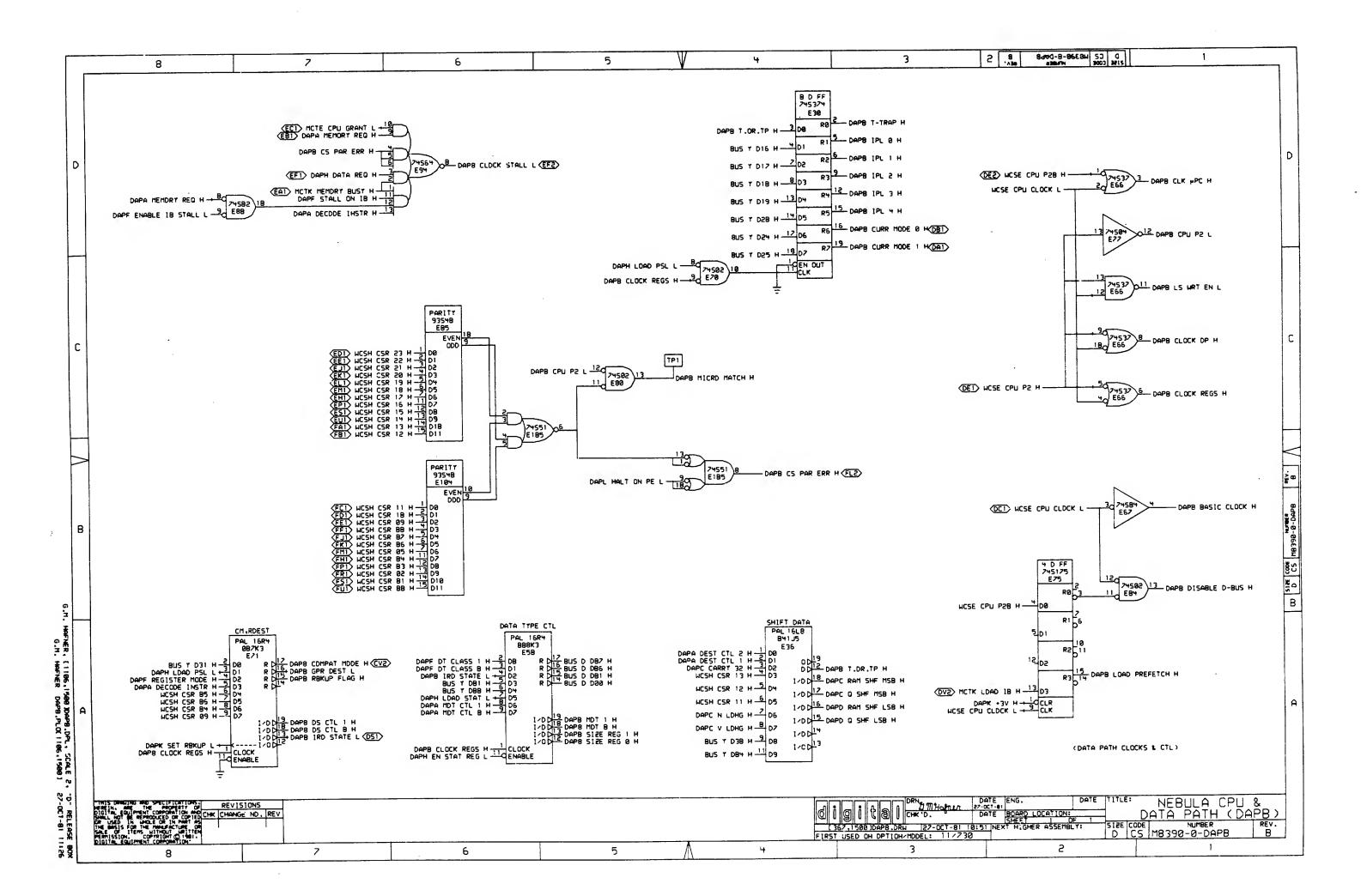
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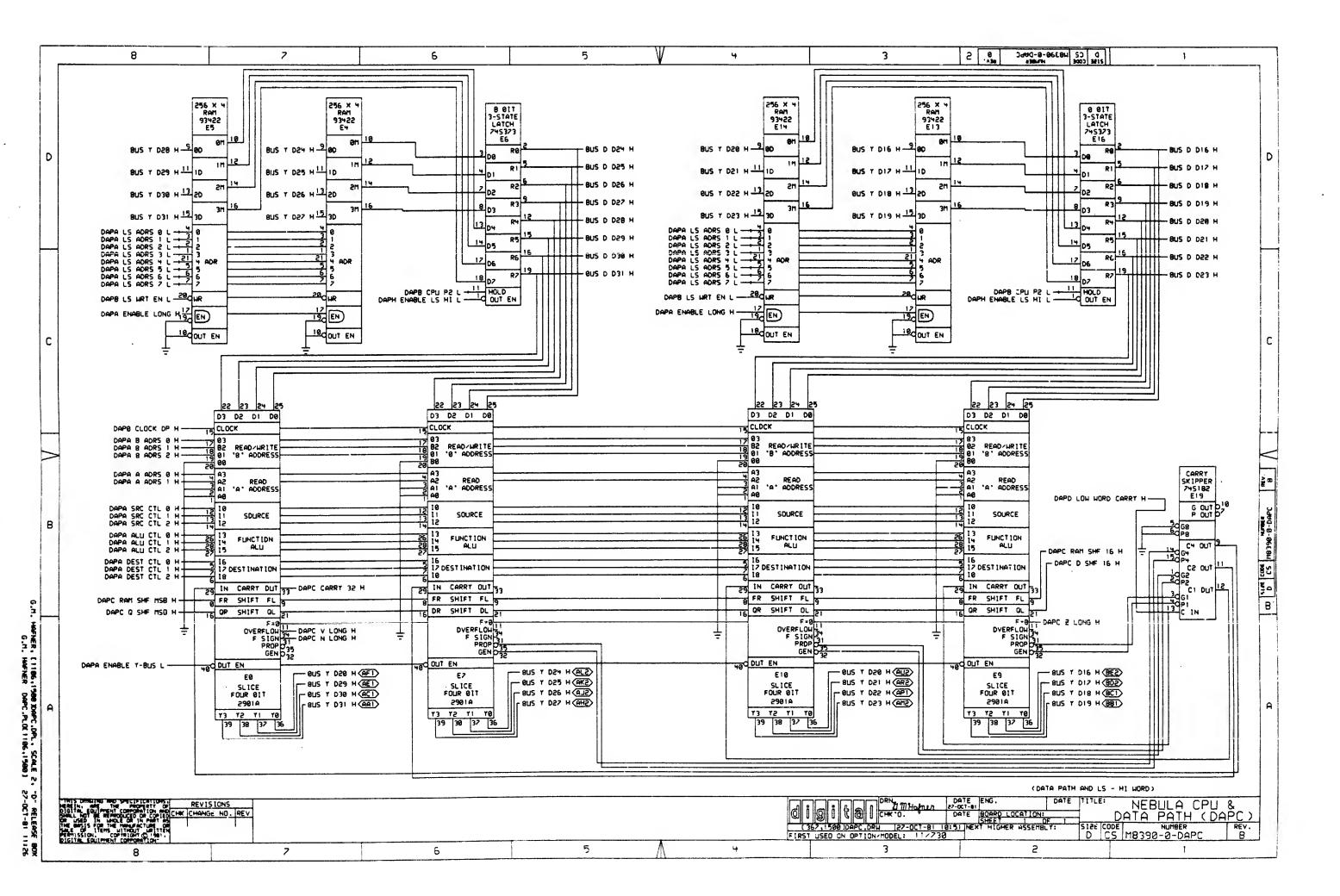
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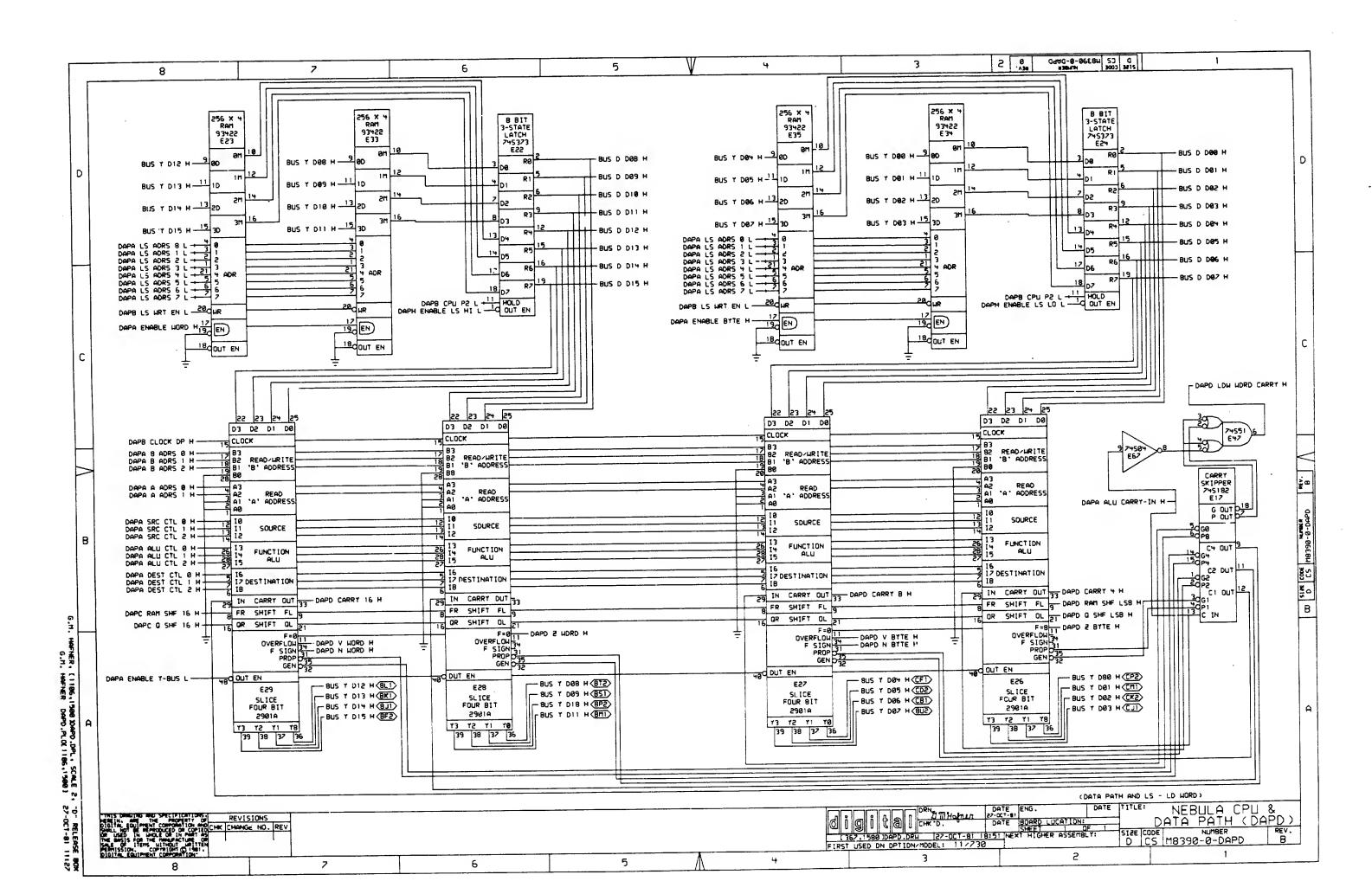


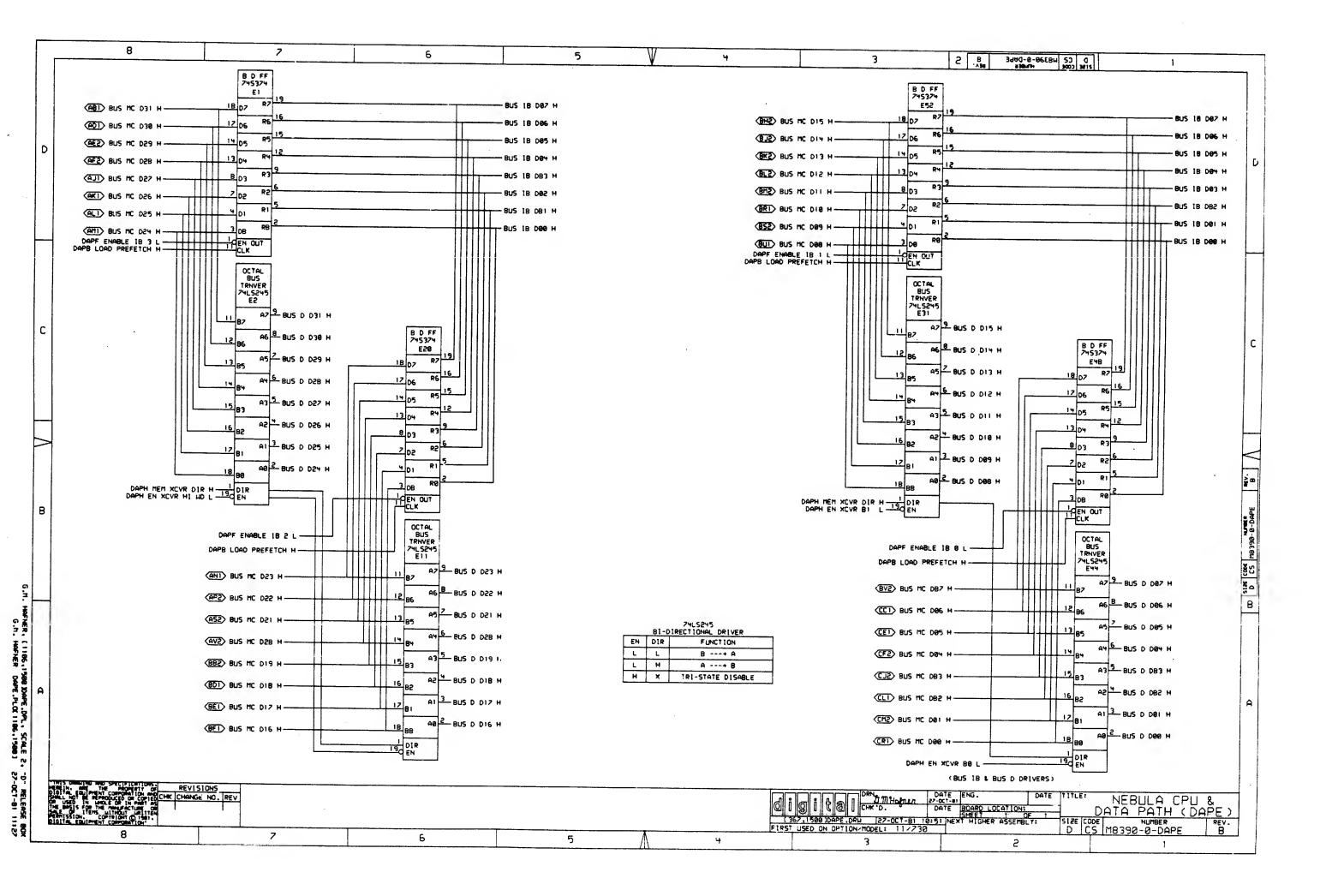


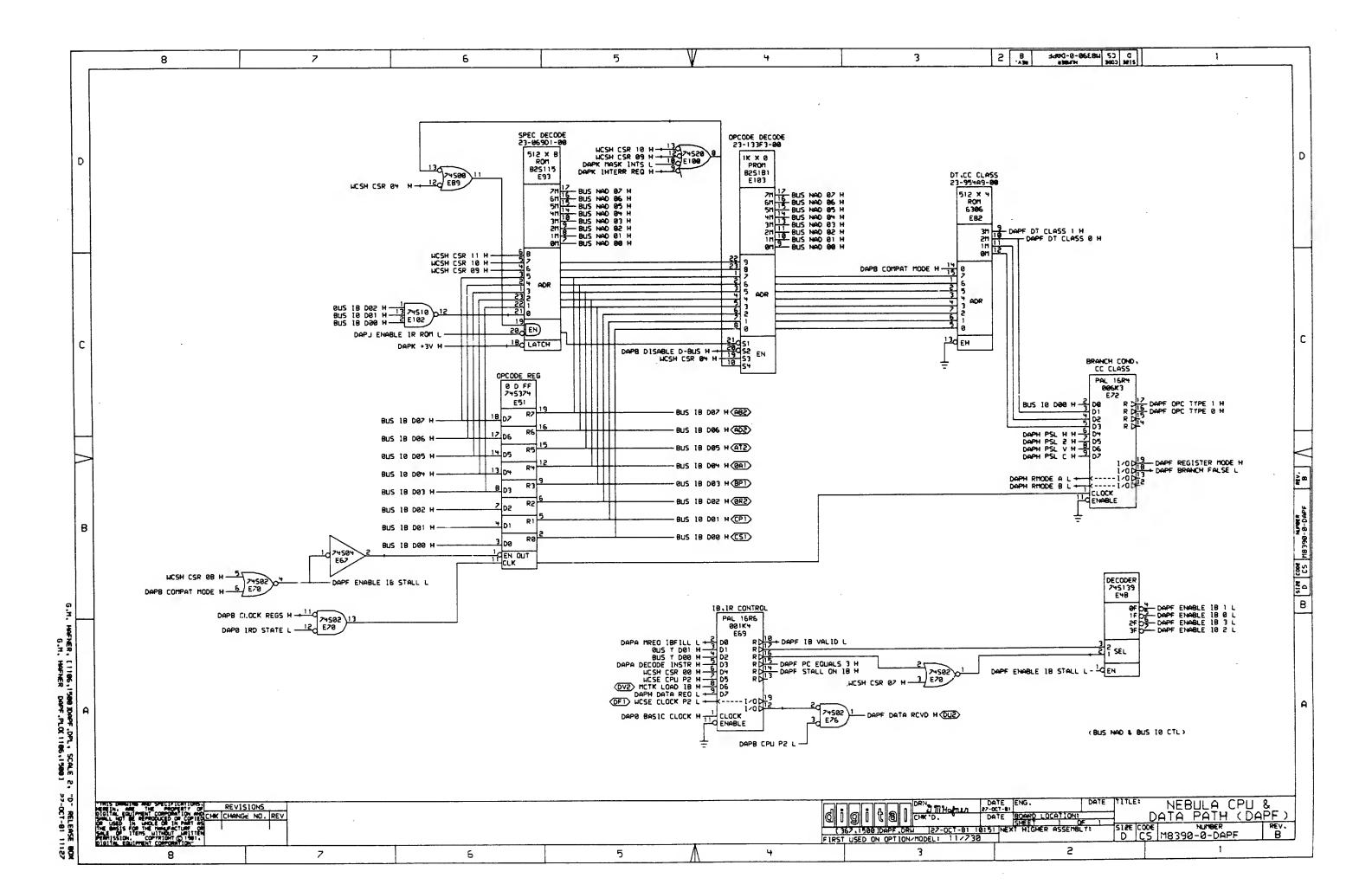


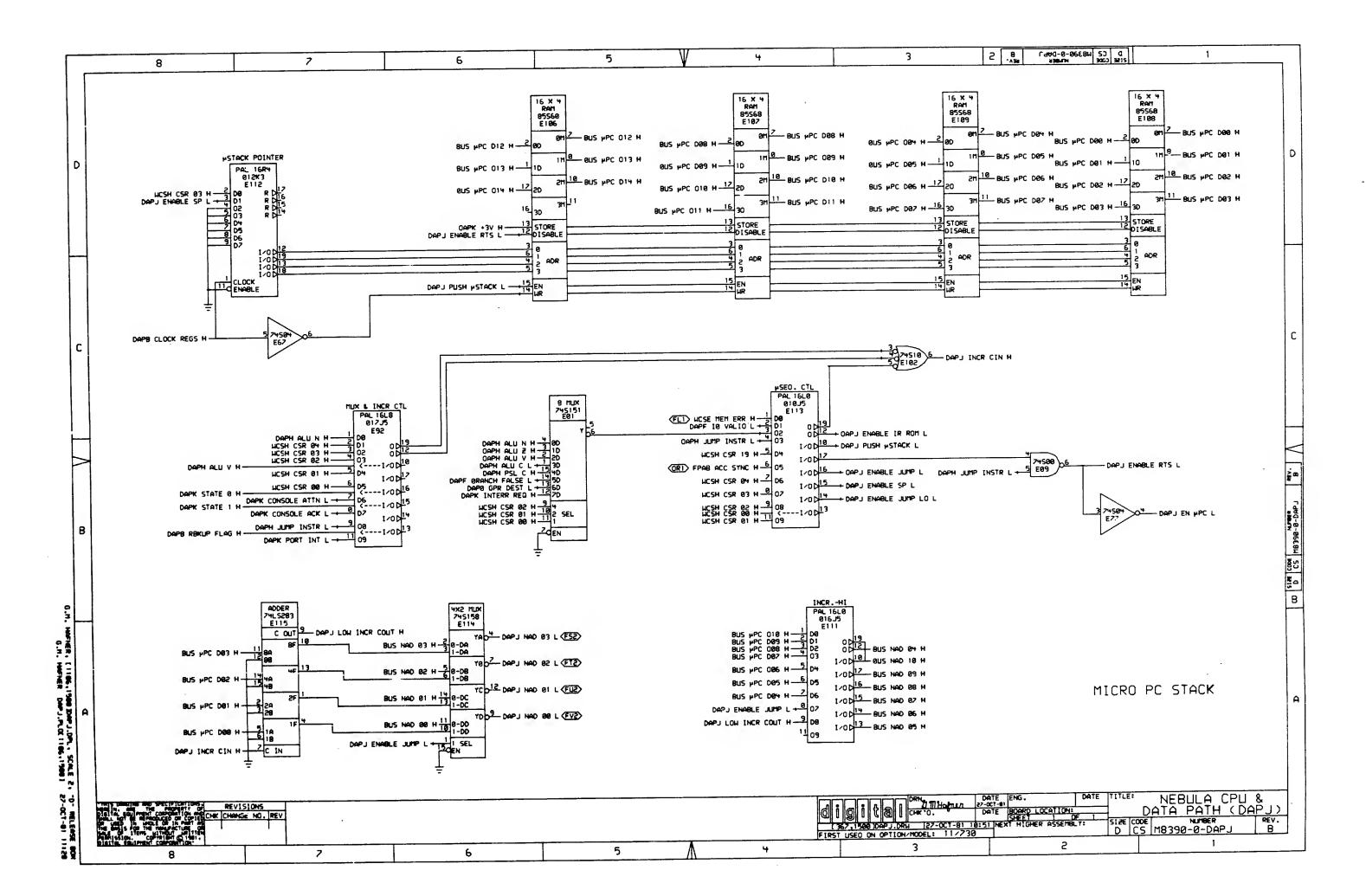


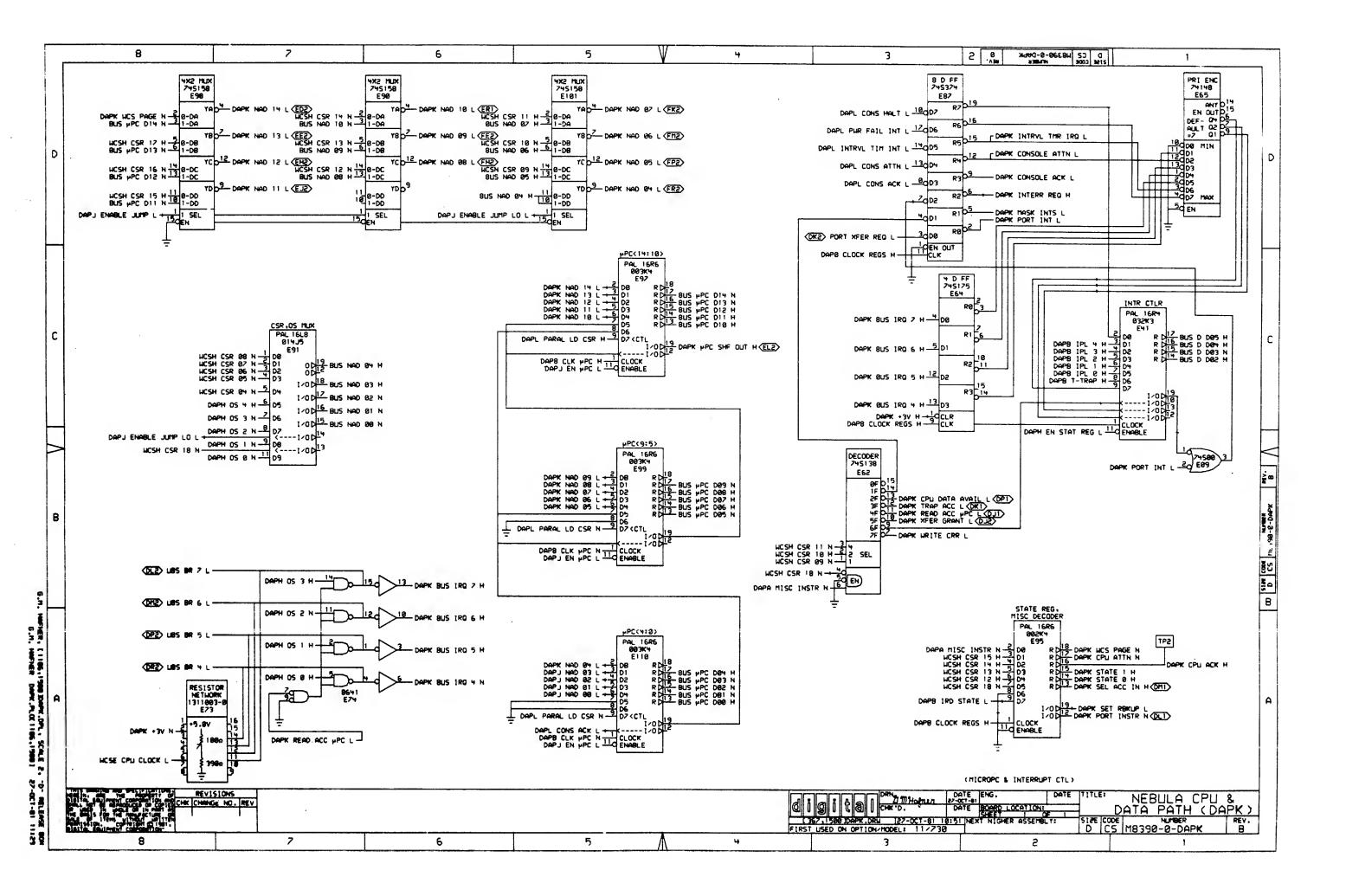


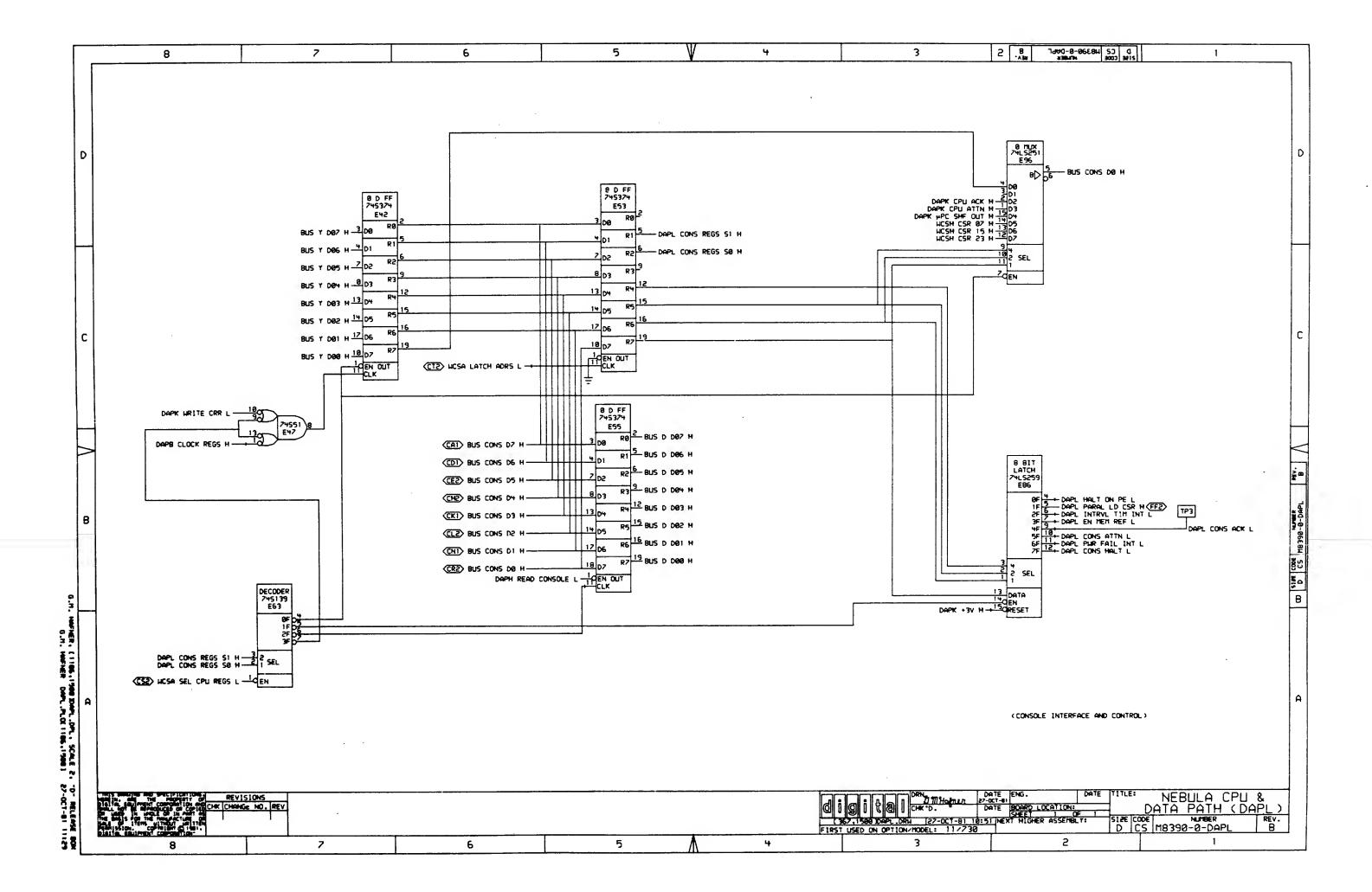


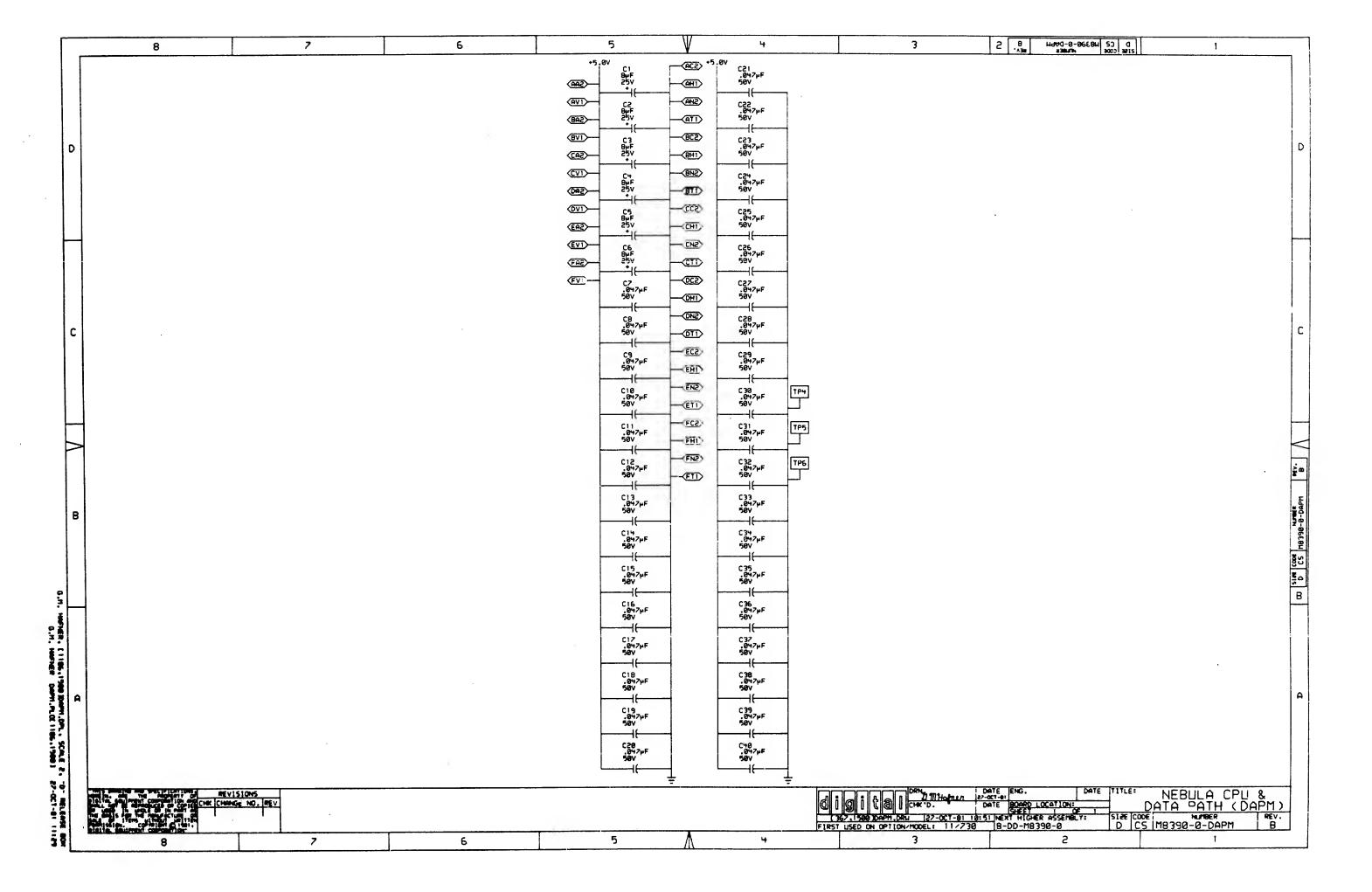












PROCRAM PAL	11) ** 14-St	SP-87 13:05:49	SCALE: 9.500	GUDPØ1.P_0 5	V	4	3 .	5 A 8-0-00E3	14 79 d 3000 BRIS	-1
	PART HUMBERI 23-012J		•	PART NUMBER: 23-613.			PART HUMBER: 23- DEVICE TYPE: PAL			
	DEVICE TYPE: PALIGLE SCHEMIC SHEET #10-			SCHEMATIC SHEET #:0-				110-CS- <del>116390-8-</del> DAPK		•
	LOCATION/DESCRIPTION	: E79/ LOCAL STORE CONTRO		LOCATION/DESCRIPTION	EYS/ A-B ACCRESS GENERATO	OR .	LOCATION/DESCRIP	TIOHE EST/ CSR . OS PLDE		
	ASSIGNED PIN NUMBER:		AFE MICO INCID	ASSIGNED PIN NUMBER	8= CSR.10	15= 8.ADRS.8	ASSIGNED PIN NUM	9ER1 8= 05.2	15= NAO.30	
	1= CSR.222 2= CSR.21 3= CSR.209 4= CSR.19 5= CSR.08 6= OT.1 7= OT.9	8=5EL.RE05 9= C.R.18 10= SNO 11= CSR.17 12=4RT.LS(7-0) 13=4RT.LS(15-8) 14=4RT.LS(31-16)	15= HISC.INSTR 16=/RFI.RES 17= HOT.CS 18= HOT.C1 19= DECODE.INSTR 28= VCC	2= CSR.21 2= CSR.20 3= CSR.20 4= CSR.19 5= CSR.18 6= CSR.17 7= CSR.16	9= CSR.89 10= GND 11= CSR.88 12=/TREQ.18FILL 13= CSR.87 14*/ENABLE.Y-BUS	15- B.ADRS.1 17- B.ADRS.2 18- A.ADRS.8 19- A.ADRS.1 20- VCC	2= CSR.07 3= CSR.06 9= CSR.05 5= CSR.09 6= OS.9 7= OS.3	9= 05.1 10= GND 11= 05.0 12= NC 13= CSR.18 14=/ENGILE.JEP.LG	15= NAO.81 17= NAO.82 18= NAO.83 19= NAO.84 28= VCC	
1	EQUATIONS:			EQUATIONS:	•	A	EQUATIONS			
	+/SEL. ₹£69	70>1 =/SEL.REGS=CSR.22=CSR 5+4/CSR.22=CSR.21=CSR.20=CS	R.19		TLL:=/CSR.22=/CSR.21=CSR.26 6=CSR.88=/CSR.87	8×CSR .19×/CSR .18×CSR .17	ift Dagle .Ju	*P.LG3 /HPD.001=/CSR.\$H=/CSR.18 */CSR.0H=/O5.0		•
	+/SEL.REGS	/CESR.21#/CSR.20#/CSR.19#CSI 5##/CSR.22#CSR.21#CSR.20#/C 5##/CSR.17	R.MI SR.19	. VCC1 ENABLE.Y	21		IFI DWALE.JU	**************************************	•	•
	IFTVCC1 URT .LSC		R.21×07.0	+/¢\$R. +/¢\$R. +¢\$R.1	19		IFT BARLE.JU	1.1727.86.86.861.97 4.1728.861.974 4.1728.861.961	9	
	+/CSR.22=/CSi +/SEL.REG3=/1	R./21#/CSR.22#/CSR.19#CSR.& CSFR.22#CSR.21#CSR.28#/CSR. 844/CSR.17#DT.@	8	+/CSR /			IFI DIABLE.JU	P.LO3 /440.831=/CSR.87=/CSR.11 +/CSR.87=/OS.3		
	IFI VCC 1 URTSC	21-+16>:=/SEL.REGS#CSR.22#C	SR.21=07.1	+05R.2 +205R.	1=/CSR.07 20=/CSR.07		IFTENBLE.JU	P.LOJ /NO.041=/CSR.08=/CSR.11	3	
	+/CSR.22=/CSI +/SEL.REG5=/I	0548,22#C5R.20#C5R.19 821#/C5R.20#/C5R.19#C5R.0 0558.22#C5R.21#C5R.20#/C5R.	8	+/CSR -	19=/CSR.07 22=/CSR.21=/CSR.20=/CSR.19			+/CSR.882/CS.4		
	#/CSR.11	BAR/CSR.17=DT.1		IFT VCC ] /8.ADRS. +/CSR.	1:=/CSR.03 22=/CSR.21					
	+C5R.21 +/C5R.28	AT AT the means acres			1=/CSR.20		•			
1	+CSR.15 IF[VCC] HRT.9EG	S: FSEL .REGS#CSR .22#CSR .21		+/CSR. +/CSR.	22*CSR.21*CSR.20*CSR.19 22*CSR.21*CSR.20*/CSR.18 22*CSR.21*CSR.20*CSR.17			•		
7	+SEL.RE35≈	/C15R.22#C5R.21#C5R.20#C5R. /C15R.22#C5R.21#C5R.20#/C5R 8*//C5R.17	19 .19	+/CSR.	20#/CSR.09 22#/CSR.21#CSR.20#/CSR.19			•		·
	IFTVCC1 /NOT.CO	:=//CSR.22*/CSR.21*CSR.28*C CSR.21*CSR.20*CSR.19*0T.1	SR.19=/0T.1=/0T.8	+C5R.8 +/C5R.	0:=/059.22=058.21=/058.20= 2=/058.07 21=/058.07	/CSR.89				
	IFEVCC3 /MOT.C1	:=//DSR.22=/CSR.21=CSR.26=C	SR.19=/97.1		2=/CSR.87 1:=/CSR.22=CSR.21=/CSR.28=/	/CSR-18	•			
	IFT VCC 1 /DECODE +CSR :21 +CSR :29	.IHISTR:=CSR.22		+CSR.2 +/2SR.	2#/CSR.83 21#/CSR.88 8=/CSR.83					•
	703R.29			· CSK ac	5-7-C-3K-164	•		•		
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			•						23-012J5-00 23-013J5-00 23-014J5-00	
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SCALE: \$0.500 GUDP02.P\_0 5 3. 2 9-9-04E2LI 79 d R PROGRAM \$A(11) \*\* 114-SEP-87 13:10:52 PHRT HUNGER: 23-818J5-88 PART HUMBER: 23-91935-09 PART HUMBER: 27-916J5-09 DEVICE TYPE: PALISLE DEVICE TYPE! PALISLE DEVICE TYPE: PALISLE SCHONTIC SHEET BID-CS-HE790-0-DAPJ SCHEMATIC SHEET 810-CS-NS798-8-DAPH SCHEMATIC SHEET #: D-CS-M#390-#-DAPJ LOCATION/DESCRIPTIONS EITH/ HICRO ADDRESS (18:4%) INCREHENTER LOCATION/DESCRIPTIONS ELLS MECRO SEQUENCER CONTROL LOCATION/DESCRIPTIONS ESS/ CC CC PTG. . . ASSIGNED PIN NUMBERS ASSIGNED PIN MARGER ASSIGNED PIN HUMBERI 15-/ENABLE.SP 16-/ENABLE.JUTP 17-/ENABLE.UPC 18-/PUSH.USTACK 9= CSR.19 9= SIZE.REG.1 10= GNO 11= SIZE.REG.0 12= CATA.REQ 15= Mr0.97 16= M40.98 17= M40.99 18= M40.19.8 19= M40.16.8 20= VCC 1= UPC.10 2= UPC.09 3= UPC.08 4= UPC.07 5= UPC.06 6= UPC.05 8=/ENABLE\_JIPP 9= CARRY.IN 10= GND 11=.NC 12= NAO.81 13= NAO.85 11= NAO.85 1. ERR.SUN 2./IB.VALID 9= CSR.93 9= CSR.82 15= COPY.CC 16= ALU.CC.FG 17= ALU.CC.F1 18= DT.9 3=/18.Vel.ED 3=/18.LIN 1=/18.TR 5= CSR.19 6= STNC 7= CSR.84 10# GHD 11# CSR.81 12=/ENABLE. IR. ROH 13= CSR. 88 11=/ENABLE. JUMPSLO 19-/08.0UT.2 19=/JUMP.INSTR 20= VCC 13= CSR.19 14= 07.1 7. UPC.84 EQUATIONS: EQUATIONS: EGUATIONS IFTVCC1 ENABLE.IR.ROM:=JUP.INSTR#/CSR.19#/CSR.03#/MLK.IW +JUP.INSTR#/CSR.19#/CSR.03#/CSR.02#/LK.IN +JUP.INSTR#/CSR.19#/CSR.20#/CSR.04#/LP.INSTR#/CSR.19#/CSR.20#/CSR.00#/IB.WRLID LFCYCC) DATA.REQ:=/CSR.22mCSR.21mCSR.26m/CSR.19m/CSR.19
+/CSR.22mCSR.21mCSR.22m/CSR.18m/CSR.17 IFT /ENGLE.LIMP) /HOD.@h:=LPC.@h=CARRY.IN +/LPC.@h=/CARRY.IN IFT /EXHABLE . JUTP 1 /HAD. 851 HUPC . 85 HUPC . 8+HCARRY . IN +/UPC . 85 H/LUPC . 84 +/UPC . 85 H/CARRY . IN IFT VCC 1 /07.11=CSR.22=CSR.06=/SIZE.RE0.1 +CSR.21=CSR.06=/SIZE.RE0.1 +/CSR.22=/CSR.21=CSR.20=/CSR.06 +/CSR.22=/CSR.21=CSR.28=CSR.06=/CSR.05=/SIZE.RE0.1 [FCYCC] ENABLE.JUMP.LO:=JUMP.INSTR=CSR.19=/CSR.03=/TLX.IN +JUMP.INSTR=CSR.19=CSR.03=/CSR.02=TLX.IN +JUMP.INSTR=CSR.19=CSR.02=/CSR.01=/CSR.00 +JUMP.INSTR=CSR.19=CSR.03=CSR.02=/CSR.00=ID.VALID IFT /PNAB\_E.JUTPI /NAD .86: =UPC.86: TUPC.85: TUPC.87: TW +/UPC.86: /UPC.05 +/UPC.86: /UPC.86 +/UPC.86: /UPC.86: /UPC.86 +COMPAT . HODE C IFEVCC1 /COPY.CC1=/CSR.22#/CSR.21 [FT VCC.] ENABLE.SPIEZULTP.INSTRECSR.0+EZCSR.03mCSR.6:mZCSR.00 +/LPP.INSTRECSR.0+EZCSR.03mCSR.02mCSR.00 +/LPP.INSTRECSR.04mCSR.03mCSR.02mCSR.SUT +/LPP.INSTRECSR.03mCSR.02mCSR.01mCSR.00 +/LPP.INSTRECSR.03mCSR.02mZSR.01mCSR.00 +/LPP.INSTRECSR.03mCSR.02mZSR.01mCSR.00mIB.VALIO +/LPP.INSTRECSR.04mZCSR.03mCSR.02mCSR.00mTXR.IN +/LPP.INSTRECSR.04mZCSR.03mCSR.02mCSR.00mTXR.IN +/CSR.06 +/CSR.05 IFT/ENABLE.JUMP ] /NAD.971=UPC.87=UPC.86=UPC.95=UPC.84=CARRY.IN +/UPC .07#/UPC .06 +/UPC .07#/UPC .05 [FT VCC] /ALLI,CC.F0: wCSR.22m/CSR.06mCSR.05 +CSR.21m/CSR.06mCCD.05 +CSR.22mCSR.05m/CSR.05mVT.1m/DT.0 +CSR.22mCSR.05m/CSR.05mVT.1m/DT.0 +CSR.22mCSR.06m/CSR.95mVT.1m/DT.0 +CSR.22mCSR.06m/CSR.95mDT.1 +/UPC . 87#/UPC . 84 +/UPC .87x/CARRY . IN [F[/ENABLE.JUTP] /HAD.08:=UPC.98#UPC.97#UPC.96#UPC.95#UPC.94 IFLYCC) ENABLE.Jump:=Jump.InSTR=/CSR.03=/TLDx.IN +Jump.InSTR=CSR.03=/CSR.02=TLDx.IN +Jump.InSTR=CSR.02=/CSR.01=/CSR.00 +Jump.InSTR=CSR.02=CSR.00=/CSR.00=I0.VALID [FEVCC] /ALU.CC.F1:=CSR.22#CSR.06#/CSR.05#/DT.1
+CSR.21#CSR.05#/CSR.05#/DT.1 IFT VCC 1 ENABLE . UPC: = CSR . 01 CC: ENABLE LPC: #/CSR.84 +/CSR.83 +/CSR.82#/CSR.81 #/CSR.98#ERR.SUM +/CSR.82#/CSR.81 #/CSR.98 +/CSR.82#/CSR.81 #/CSR.88 +CSR.82#/CSR.81 #/CSR.88 +CSR.82#/CSR.81 #/CSR.88 IFT /ENABLE . JUTP ] /NAO .89: =/UPC .89=/CARRY . [N IFT VCC I JUMP . INSTR: =/CSR .22 =/CSR .21 =/CSR .20 [FT.VCC] PUSH.USTACK: =JUMP.INSTR#CSR.03#CSR.02#/CSR.01#/CSR.00 +JUMP.INSTR#CSR.03#CSR.02#/CSR.01#CSR.00#I0.VALID IFT VCC 1 OR .OUT .2: =/JUMP.INSTRECSR.0\*HTMCSR.03 = CSR.02 = CSR.01 = CSR.00 = CSR.02 = CSR.01 = CSR.00 = CSR.02 = CSR.01 = CSR.00 = CSR.01 = CSR.01 = CSR.00 = CSR.01 = CSR. IFC /ENABLE.JUMP#/UPC.181 MAD.18.A: #/CARRY.IN +/UPC .03 +/UPC .03 +/UPC .02 +/UPC.BY IFT/PHABLE.JUPPEPC.161 /HOD.18.81=UPC.89mUPC.89mUPC.87mUPC.86 mUPC.95mUPC.91=CARRY.IN В 23-016-5-00 23-91935-04

THE DESIGN OF THE PREVIS	IONS		•		Ball Dayrer 11	TE ENG. DATE TITLE:	DATA PATH ROM
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THE BESTS FOR THE PROCESSED OF THE SECTION OF THE S				<u> 105Ki</u> F 185	<u>GLDP02.12P1367.15031111-5E9-81 15:1.</u> T USED ON OPTION/MODEL: 11/ <i>73</i> 0	3-DD-M8390-0-0 D	K M8390-0-0 A
Statis (Silveni Co. Silvin)		e	8	A 4	3	2	
8	/	0	3	11	•	<del>-</del>	

<b>9</b> A(11) ** 114-5	EEP-87 13:17:	38 SCALE: \$0.500	3 GUDP03.P_O 5	Ψ	4	3	S 'Y'	0-0-05E3H PS 0	1	
			٠	n n.	•	• .				
PART HUMBER! 23-828./5-6	<b>19</b> 4	•	PART NUMBERT 23-821JS-		•	PART HUMBERT 23-9-1.	e-00			
DEVICE TYPE: PALIGLE			DEVICE TYPE: PALISLS			DEVICE TYPE: PALISLE		•		
SCHEWIC SHEET DID-CS	re <b>78398-0-00PM</b>		SCHEMATIC SHEET #10-CS	5-H2399-6-DAPH		SCHEMIC SHEET BUD-				
LOCATION/DESCRIPTIONS I		•		E49/ SIGN EXTEND CONTROL		_OCATION/DESCRIPTION		•		
ASSIGNED PIN HUNGERS			ASSIGNED PIN NUMBER:			ASSIGNED PIN HUMBER		•		
1= CSR,22	8= CSR.19	15=/READ.CONSOLE	1= CSR.22	9= H01.8	15~READ. IN .HEHORY	1= DEST.CTL.2	S- ATONS	15= Q.SHF.LSB		
2* CSR.21 3* CSR.18 4* CSR.17 5* CSR.16 6*/SEL.REOS 7* DISABL.D-BUS	9= CSR.09 10= GND 11=4RITE.REGS 12=4LGAD.PSL 13= NC 14=4ENGLE.LS.LG	16=/en.stat.reg 17= 5.0 18= 5.1 19=/read.regs 20= VCC	2= CSR.21 3= CSR.18 4= CSR.17 5=/SEL.REGS 6= CSR.16 7= NOT.1	9= GATE.DIR 10= GND 11= DISABL.D-BUS 12=/EN.SXT.B1 13=/EN.SXT.HI.HD 14= NC	16=/EN.LS.HI 17=/EN.XCVR.58 18=/EN.XCVR.8I 19=/EN.XCVR.HI.46 20= VCC	2* DEST.CTL.1 3* CARRY.32 4* CSR.13 5* CSR.12 6* CSR.11 7* N.LONB	9= 7.39 10= 940 11= 7.0+ 12= T.OR.TP 13= 940 14= 80	16= RR11.SHF.LSB 17= Q.SHF.HSB 18= RR11.SHF.HSB 19= NC 28= VCC		
EQUATIONS			EQUATIONS:			EQUATIONS				
IFTVCC1 LOAD .PSL:=	CSSR.22*CSR.21*CSR.16#LR	ETE.REGS	IFT VCC 1 EN .SXT .B1:	*CSR.22*SEL.REGS*/DISABL	D-8U5	IFLVCC1 /T.OR.TF	1=71.30=71.84			
IFTVCC 1 ENABLE.LS.	#CESR.18#CSR.09 LD::#CSR.22#/SEL.RE05#/01	SABL D-BUS	+/CSR.22*CSR.	.21#CSR.18#CSR.17#SEL.REGS .21#CSR.18#/CSR.17#/CSR.16 .21#/CSR.18#/CSR.17#/YDT.6	≥/DISABL.O-BUS	+/0	SR.13=/CSR.12=CSR.11=	*/CSR.13*/CSR.12*/CSR.11*/Q.S //RAM.SHF.MS8	HF 2158	
+/CSR.22*/CS +/CSR.22*CSR	R.221=/DISABL.D-BUS .21+=/SEL.REGS*CSR.17=/DI	SABL.D-BUS	IFT VCC 1 EN . SXT .HT .	.uo: =CSR.22=SEL.REGS=/DISA	BL.O-BUS		SR.13=CSR.12 R.13=/CSR.11			
IFEVCC 1 READ .CONSO	LE:=*/CSR.22=CSR.21=CSR.1 CSR.::17=/D1SABL.D-BUS	6#SEL.REGS#/CSR.18	+/CSR.22=CSR.	21#CSR.18#CSR.17#SEL.REGS 21#CSR.18#/CSR.17#/CSR.16 21#/CSR.18#/CSR.17#/MDT.1	≠/DISABL.D-BUS	IFCCEST.CTL.2=08	ST.CTL.11 /RAH.SHF.LS	84 =/CSR.13=/CSR.12=/CSR.11		
	:=::::/=/d/sagl.d-bus 3:=:::::::::::::::::::::::::::::::::::	BL D-RIKWICO 10mmco 00	FCVCC1 READ.IN.HE	• •		+/0	vran.shf.nsb :Sr.13=CSR.11=/0.shf.n :Sr.13=CSR.12=/CSR.11	58		
+/USR.22#CSR	.2: * #SEL .REGS #/DISABL.D-8 /CSRR.16#CSR.17	US=CSR.18	٠.	-CSR.22*/SEL.REGS*/DISABL.	n_a.c		R.13			
1FT VCC1 /5.8:=CSR.			+/CSR.22=CSR.	.21*CSR.17*/SEL.REGS*/DISA 2.21*/DISABL.D-BUS	ec.o-eus	IFIDEST.CTL.2=/DEST.CTL.1] /Q.SHF.HSB:=/CSR.13=/CSR.12=/CSR.11 =/Q.SHF.LSG				
+CSR.22#CSR. +/CSR.22#CSR +/CSR.22#CSR +/CSR.22#CSR	12*/2C5R.09 .21**C5R.17*/C5R.10*/C5R.0 .21**C5R.17*C5R.10*/C5R.0 .21**/C5R.18*/C5R.10*/C5R.	19 189	IFI VCC 1 EN.XCVR.88	0: =/CSR.22=CSR.21=/CSR.18= .21=/CSR.19=CSR.17=GATE.DI	R=/DISABL_D-BUS	+/CSR.113#CSR.11#/RAM.SHF.LSB +/CSR.113#CSR.12#/CSR.11 +CSR.13#/CSR.12#/RAM.SHF.LSB +CSR.13#/CSR.11#/RAM.SHF.LSB				
+/CSR.22*CSR	.21 **/CSR.18*CSR.18*/CSR.	09	IFFYCE I ENLYCYRIBI	: #/CSR. 22#CSR. 21#/CSR. 18#	ZOSP.17#ZDTSARE.D-REISHADT.R	IFEDEST.CTL.2=/0	EST.CTL.11 /RAM.SHF.m	58: =/CSR.13=/CSR.12=/CSR.11		
IFT VCC1 /5.1:=CSR. +/CSR.22*CSR	.21 PMCSR.17 MCSR.10 MCSR.09		+/CSR.22#CSR. +/CSR.22#/CSR	21 = CSR.18 = CSR.17 = GATE.DI	R×/015A8L.O <del>-BUS</del> S	#/RAM_SHF_LS3 +/CSR_13#/CSR_12#/CSR_11#/0,SHF_LS8 +/CSR_13#/CSR_12#/N.LON9 +/CSR_13#/CSR_12#/N.LONG#/Y.LONG				
+/CSR.22=CSR	.21=CSR.17=CSR.16 .21=/ <csr.18=csr.10=csr.0< td=""><td>9</td><td></td><td>.uo:=/csR.22*csR.21=/csR.</td><td>18#/CSR.17</td></csr.18=csr.10=csr.0<>	9		.uo:=/csR.22*csR.21=/csR.	18#/CSR.17					
	.21**:::SR.18*CSR.16		+/C5R.22±C5R	-8US#MOT.1 2.21=/CSR.18=CSR.17=GATE.D	{R	+cs	R.13=/CSR.12=/CSR.11=/ R.13=/CSR.12=/CSR.11=/	N.LONG=V.LONG CARRY.32		
#CSR,1@#S	=/CSSR.22#CSR.21#CSR.17#C 5FEE65		#/DISA8L.D +/CSR.22#/CS	)-blis GR.21×gate.dir×/disabl. <del>d-8</del>	us .	+CS	R.13#CSR.12			
+CSR.22≡SEL.	.2: =CSR.18=/CSR.17=/DISA RSLE=/DISABL.D-BUS=/CSR.	19		. ,	•					
+/CSR.22=CSR =/CSR.10=	REGED#/DISABL.D-BUS#CSR.0 .21 #ESR.17#/CSR.16#/DISA	BL.0-8u\$								
+/CSR.22*CSR #CSR.09*S	.2! =CSR.17=/CSR.16=/DISA	al.o-Bus			•					
-csk.43-3				•						
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REVISIONS  CP AND THE PROPERTY OF THE PROPERTY	<del>2</del>					1 3 9 1 08 4 1 1 2 1 2 1	DATE ENG.	DATE TITLES DAT	A PATH	
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0-0-06681 79 0 225 0000 MHDEs 2 . > PROGRAM \$A(11) \*\* 114-SEP-87 13:23:26 3 SCALE: 9.500 GUDPØ4.P\_0 5 1 PART NUMBER: 23-909K3-98 PART MAISER! 23-927K3-09 PART HUMBER: 23-206K3-00 DEVICE TYPE: PALIERY DEVICE TYPE: PALIFRY DEVICE TYPE: PALISRY SCHEMATIC SHEET #10-CS-M#790-0-DAPE SCHEMATIC SHEET #:0-CS-M9390-6-DAP9 SCHEMATIC SHEET BID-CS-M8398-8-DAPF LOCATION/DESCRIPTION: EZI/ I-STRF CATA PROCESSING R-DEST. LOCATION DESCRIPTIONS ESS DATA TYPE CONTROL LOCATION/DESCRIPTION: E72/ BRANCH COHO. ,CC ASSIGNED PIN NUMBER: ASSIGNED PIN NUMBERS ASSIGNED PIN HUMBER: 1= CLK.REGS 2= DT.CLASS.1 3= DT.CLASS.8 4=/IRD.STATE , 5= Y.01 6= Y.08 7=/LOAD.STAT 8= MDT.CTL.1 9= MDT.CTL.8 18= GND 11= EN.STAT.REG 12= SIZE.REG.8 13= SIZE.REG.1 14= D.99 8= CSR.87 9= CSR.89 10= GNO 11= REG.OUT.EN 12=/SET.RBKUP 13=/IRO.STATE 11=/CT.IRO 15" RBKUP.FLAG 16=/GPR.DEST 17" COMPAT.MODE 18" OS.CTL.0 19" OS.CTL.1 20" VCC 15= 0.81 16= 0.86 17= 0.27 18= MOT.8 19= MOT.1 28= VCC 8= PSL.V 9= PSL.C 10= GNO 11= REG\_OUT.EN 12=/R100E.B 13=/R100E.A 15= 18.8.SAVE 16= CPC.TYPE.8 17= OPC.TYPE.1 18= BR.FALSE 19= REGISTER.MODE 20= VCC 1= REGISTER.CLK 1= REGISTER .CLOCK 1= REGISTER.CLK 2= 1.31 3=/LD.PSL 1= R.MODE 5= DECODE.INSTR 6= CSR.05 7= CSR.05 2= 18.9 3= DT.CLASS.9 4= CC.CLASS.1 5= CC.CLASS.8 6= PSL.N 7= PSL.2 EQUATIONS: **EQUATIONS**: EQUATIONS IF(VCC) /OS.CTL.11=0ECODE.INSTR#CSR.06#/COFFAT,HODE +DECODE.INSTR#CSR.06#/CSR.05 +Ch.IRO#/DECODE.INSTR PRETEST: =/CC.CLASS.1=PSL.2 -/DT.CLASS.0=CC.CLASS.0=PSL.C +DT.CLASS.0=/CC.CLASS.0=PSL.N +/DT.CLASS.0=CC.CLASS.1=/CC.CLASS.0=PSL.V +DT.CLASS.0=CC.CLASS.0=PSL.N=/PSL.V +DT.CLASS.0=CC.CLASS.0=/PSL.N=/PSL.V IFT VCC1 /SIZE.RE3.81=/0.38 [FEVCC] /SIZE.REG.11=/0.21 /D.80:=[RD.STATE=/DT.CLASS.8 +LOAD.STATE=/LOAD.STATE=/D.80 +/[RD.STATE=/LOAD.STATE=/D.80 IFCVCC3 /OS.CTL.9: \*DECODE.INSTR#CSR.96 /COMPAT.MODE: =LD.PSL=/1.31 +/LD.PSL=/COMPAT.MODE /18.9.SAVE1=/18.9 /D.811\*IRD.STATE#/DT.CLASS.1 +LOAD.STATE#/LOAD.STATE#/D.81 +/IRD.STATE#/LOAD.STATE#/D.81 GPR.DEST: =DECODE.INSTR=CSR.05=R.MODE DECODE.INSTR=GPR.DEST DSR-05=GPR.DEST /OPC.TYPE.8:=/CC.CLASS.8 PC.TYPE.11=/CC.CLASS.1 /0.961=/101.CT..1=/101.CT..9 +101.CTL.1=/101.CTL.9≈/0.96 /RBKUP.FLAG:=!RO.STATE +/SET.RBKUP#/REKUP.FLAG IFCVCC1 /BR.FALSE: =/18.0.SAVE=PRETEST +18.0.SAVE=/PRETEST /0.87:=/101.CTL.1 +101.CTL.1=101.CTL.9=/0.82 CH. IRD: =DECODE.INSTR=CSR.89\*CSR.84\*COMPAT.MODE IFT VCC : /REGISTER.MODE: =/RMODE.A IFTYCC1 /HOT.91=/0.06 IFCVCC1 IRD.STATE: -DECODE.INSTR=CSR.99=CSR.94 IFT VCC) /107.11=/0.87 23-006K3-00 23-007K3-00 23-029K3-00 DATA PATH ROM ORY THE SAG LOCATION:

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FIRST USED ON OPTION/TODEL: 11/730 | 9-00-18399-6-0 AND PAL LISTINGS SIZE CODE HUMBER D GL M8390-0-0 REV. 3 2 5 4 7 6 8

		-D 02 12-27-25	SCALE: 8.500	GUDP25.P_0 5		4	3	2 9 8-8-96E8U 79	) (1 m) 22(S		. 7
RAM BAL	(11) ** 14-SE	P-87 13:27:25	SCHLE! W. JUN	GUUF85,I U			•		• .		
	PART NUMBER: 23-0:00X3 DEVICE TYPE: PALISRY SCHEMATIC SHEET 0:0-C LOCATION/DESCRIPTION: ASSIGNED PIN NUMBER:	CS-M8398-8-DAPH I: E68/ DS EVEN NUMBERED BITS	į.	PART NUMBER: 23-011K3- DEVICE TYPE: PALIGRY SCHEMATIC SHEET #:0-CS LOCATION-DESCRIPTION: ASSIGNED PIN NUMBER:		;	PART NUMBER: 23-812K3-6 DEVICE TIPE: PALIGRA SCHEMATIC SHEET #:0-CS LOCATION-DESCRIPTIONS: ASSIGNED PIN NUMBER:	<del>s-118799-8-00P</del> J E112/ U STACK POINTER CONTROL			D
	1= CLX.REGS 2= 13.6 3= 13.4 4= 18.2 5= 18.0 6= Y.6 7= Y.4	8= Y.2 9= Y.0 10= GND 11= REG.OUT.EM 12= OS.CTL.0 13= OS.CTL.1 14= OS.0	15= 05.2 16= 05.4 17= 05.6 18=/RT00E.B 19=/L090.Y.T0.05 20= VCC	1= CLK.REBS 2= IB.7 3= IB.5 4= IB.3 5= IB.1 6= Y.87 7= Y.85	8= 1.83 9= 1.81 10= GND 11= REG.OUT.EN 12= OS.CTL.8 13= OS.CTL.1 11= OS.1	15= 05.3 16= 05.5 17= 05.7 18=/RHODE_A 19=/LD40.Y.T0.0\$ 20= VCC	1= CLK.REGS 2= CSR.3 3=/ENABLE.SP 1= NC 5= NC 6= NC 7= NC	8= HC 9= PRESET 18= G40 11= REG_OUT_EM 12=XADRS.8 13=XADRS.1 14=/SP.8	15=/5P.1 16=/5P.2 17=/5P.3 18=/40R5.2 19=/40R5.3 28= VCC		
	EQUATIONS: IFT VCC 1 RMCOE .9:	=05.CTL.1=×IB.4		EQUATIONS: IF(VCC) RHODE.A:= +/OS.CTL.1=/	=05.CD1=/19.5=/18.3 /18.7=/18.5		EQUATIONS: IFT VCC1 ADRS.8: +CS +>CSR.3*SF	.8			*.
	+/05.CTL.1×1 /05.6: */05.CTL.1×1 +/05.CTL.1×0 +05.CTL.1×1	#/05.CTL.0#/IB.6 #05.CTL.0#/05.4		/05.71=/05.CTL.1=0 -/05.CTL.1=0		* 7	[F[ VCC ] ADRS11#/C +CSR.3#SP. +SP.1#/SP.	CSR.3m/SP.1m/SP.8 1mSP.8		1	
	+LOAD.Y.TG.C /OS.4:=/OS.CTL.1* +/OS.CTL.1*C *OS.CTL.1*C	1#/05.CTL.0#/IB.\ #05.CTL.0#/05.2 /05.CTL.0#/1B.\	٠.	+LOAD.Y.TO.U *05.5:=/05.CTL.1* +/05.CTL.1*0 +05.CTL.1*/0	05%/1,8/ %/05.CTL.8#/IB.5 05.CTL.8%/05.3 05.CTL.8%/IB.5		+ENABLE.SP*/ +/ENABLE.SP* +CSR.3*/SP.1	SR.3=/SP.1=/SP.0=/PRESET //CSR.3=SP.1=/SP.0=/PRESET //SSP.0=/PRESET //=SP.0=/PRESET //=SP.0=/PRESET		!	С
	+05.CTL.1=0 +L0AD.Y.TG.0 +05.21=/05.CTL.11 +/05.CTL.1=0	05.CTL.0#/IB.2 #05.CTL.0#/IB.2 #05.CTL.0#/IB.2		+L0AD.Y.T0.0 */OS.3:=/OS.CTL.1= */OS.CTL.1=/ +/OS.CTL.1=/0	=/18.3 :25.CTL.0 :05.CTL.0		SP.1: =ENABLE.SP#/ +ENABLE.SP#( +/ENABLE.SP# +/CSR.3#SP.1:	CSR.3#/SP.1#/SP.0#/PRESET CSR.3#/SP.1#/SP.0#/PRESET PRSP.1#/PRESET #SP.0#/PRESET 1#/SP.0#/PRESET		1	
	+05.CTL.1#05 +L040.Y.T0.6 /05.9:=/05.CTL.1# +/05.CTL.1#	1#/05.CTL.0#/ <b>18.0</b> #05.CTL.0#/18.6 /05.CTL.0#/18.0 05.CTL.0#/LOAD.Y.TO.05#/ <b>05.0</b>		+0S.CTL.1#7L +L0AD.Y.TO.0 /0S.11=/0S.CTL.1# +/0S.CTL.1#7	LOAD.Y.TO.OS#/OS.3 OS#/.03 #/OS.CTL.0#/IB.1 OS.CTL.0#/IB.7 OS.CTL.0#/IB.1 IS.CTL.0#/LOAD.Y.TO.OS#/OS.1	1	SP.2=ENABLE.SP#C +ENABLE.SP#. +SP.2=SP.0= +SP.3=SP.2= +SP.3=SP.2= +/SP.8E.SP.2=	SR.3#/SP.3#SP.1#/SP.8#/PRESET #/CSR.3#SP.3#/SP.1#/SP.8#/PRES	; SET	1 8	V
							5P.31=ENABLE.5P*/ +ENABLE.5P#/ +5P.3#5F.0#. +5P.3#5P.2# +5P.3#5P.2# +5P.3#5P.2# +5P.3#5P.2# +/ENABLE.5P.	/CSR.?#/SP.2#/SP.1#/SP.8#/FRES #CSR.3#SP.2#SP.1#/SP.8#/FRESET	蛭T f	1	390-8-0
								/CSR.3±5P.3±/5P.1±/5P 8 P.2 .2 .8	•		06 (1 18390) 0 (1 18390)
			•				FFE WCC1 ADRS.31 = / +CSR.315P +SP.315P +SP.315P. +SP.315P.	P.2 . <b>9</b>			В
								•			
			·		·						A
		*							23-010<3-00 23-011×3-00 23-012×3-00		
	REVISIONS  CHAST ON CONTES NO. PER  CHAST OF THE CONTES NO. PER  CHAST OF				•			DATE PAGE CONTION:  CATE PAGE TO DE 14  STILL PAGE HOME ASSEMENTS	TITLES DATA PAT AND PAL L	TH ROM	

OGRAM 29	R(11) ** 14-	P-87 13:31:49	SCALE: 9.500	GUDP25.P 0 5	V	4	. 3	2 5 8-8-8-88.	79 d 3000) 32(5	1
							•	·		
	PART NUMBER: 23-0 3X DEVICE TYPE: PALISAN SCHEMATIC SHEET 8:0-4 LOCATION/DESCRIPTION ASSIGNED PIN NUMBER:	CS <del>-18398-8-0APH</del> H E37/ ALU N <sub>1</sub> 2	*	PART NUMBER: 23-014IC DEVICE FIPE: PALIGRY SCHEMATIC SHEET 0:0-1 LOCATION-DESCRIPTION: ASSIGNED PIN NUMBER:	CS-18398-8-DAPH 4 E39× AL21 Y:C		PART NUMBER: 23-015X DEVICE TYPE: PALIGAM SCHEMATIC SHEET 8:0- LOCATION-DESCRIPTION ASSIGNED PIN NUMBER:	CS <del>-18799-0-04PM</del> # ESSV PSL CC	·	
	1 = CLK.REGS 2 = N.LONG 3 = N.LOND 4 = N.BYTE 5 = Y.83 6 = 2.LONG 7 = 2.LOND	8= 2.3YTE 9= 7.02 19= 000 11= REG.OUT.EN 12= ALU.CC.F1 13= ALU.CC.F0 14= NC	15= MPLIER.LS8 16= ALU.2 17= ALU.N 18=/LOAD.Y-BUS 19= Q.SMF.LS8 20= VCC	1 = RESISTER.CLOCK 2= V.LCP4G 3= V.LCP4D 4= V.ETE 5= Y.2T 6= C.32 7= C.F6	8= C.8 9= Y.00 19= GNO 11= REG.OUT.EN 12= ALL.CC.F1 13= ALL.CC.F0 14= NOT.ALL.C	15=/44LF.CABRY 16= ALU.C 17= ALU.Y 18=/LOAD.Y-BUS 19= C.4 28= YCC	1= CLX.REGS 2= ALU.N 3= ALU.Z 1= ALU.Z 5= ALU.C 6= OPC.TYPE.1 Z= OPC.TYPE.0	8= COPY.CC 9= 7.83 18= GRO 11= REG.CUT.EN 12= 7.82 13= 7.81 14= PSC	15= PSL.V 16= PSL.Z 17= PSL.N 18= Y.00 19=/L000.PSL.CC 20= VCC	·.
	+/ALU.CC.F +ALU.CC.F +/ALU.CC.I	F1=/LOAD.Y-BUS#/2.8YTE F1=ALU.CC.F8=/LOAD.Y-BUS#/ 1=/ALU.CC.F8=/LOAD.Y-BUS#/ F8=/LOAD.Y-BUS#/2.8YTE	Z.LONG	EQUATIONS:  /NOT_ALU.C: =/ALU.CC. +/ALU.CC. +ALU.CC.; +ALU.CC.; +ALU.CC.; +ALU.CC.; +ALU.CC.; +ALU.CC.; +ALU.CC.; +ALU.CC.; +ALU.CC.;	.CC.F1 = /ALU.CC.F8 = /LORD.Y-B .F1 = ALU.CC.F8 = /LORD.Y-BUS=C F1 = /ALU.CC.F8 = /LORD.Y-BUS=C F1 = ALU.CC.F8 = /LORD.Y-BUS=ALI BUS=Y.00	JS#C.8 .16 .32 J.C	+/L000.PS +/L000.PS +/L000.PS	.CC=/7.88 L.CC=/05Y.CC=/PSL.C L.CC=COPY.CC=/PSC.TYPE.1=/06 L.CC=COPY.CC=/06C.TYPE.1=/06 L.CC=COPY.CC=/06C.TYPE.1=/06 L.CC=COPY.CC=/06C.TYPE.1=/06C	C.TYPE.0±ALU.C C.TYPE.0±ALU.C	•. •
	+L0A0.7-B  - 20.014-* ALU.C1  - 20.014-C	F1#/ALU.CC.F8#/LOAD.Y-8US#/ F1#ALU.CC.F8#/LOAD.Y-8US#/ 1#/ALU.CC.F8#/LOAD.Y-8US#/ 1#ALU.CC.F8#/LOAD.Y-8US#/	VN.BYTE N.HORD	. 22.42.4 . 22.42.4	FINALU.CC.F8m/L0A0.Y-8USM/ FINALU.CC.F8m/L0A0.Y-8USM/ FINALU.CC.F8m/L0A0.Y-8USM/ FINALU.CC.F8m/L0A0.Y-8USM/ BUSM/Y.00 FINALU.CC.F8m/L0A0.Y-8USM/ FINALU.CC.F8m/L0A0.Y-8USM/ FINALU.CC.F8m/L0A0.Y-8USM/ FINALU.CC.F8m/L0A0.Y-8USM/ FINALU.CC.F8m/L0A0.Y-8USM/ FINALU.CC.F8m/L0A0.Y-8USM/	16 32 	+/_000.PS +/_000.PS -/_000.PS +/_000.PS +/_000.PS -/_000.PS	L.CCX/COPY.CCX/PSL.Y L.CCXCOPY.CCX/PLIV L.CCXCOPY.CCX/PC.TYPE.1 .CCX/T.02 L.CCX/COPY.CCX/PSL.2 L.CCX/COPY.CCX/PSL.2 .CCX/T.03		
		••					+/LOAD.PS +/LOAD.PS	L.CC=CCPY.CC=/ALU.N=/ALU.V L.CC=CCPY.CC=/CPC.TYPE.I=/A L.CC=CCPY.CC=/CPC.TYPE.8=/ALI	אינדי	
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COMPANY OF THE PROPERTY OF THE	TOTAL CHANGE NO. REV			W.		digi	.1290 367,1590 )[11-589-81 151	MATE BOAFD LOCATION: SUFFET DE OF 14 12 SEXT HIGHER ASSEMBLY:	AND P: N	PATH ROM <u>LISTING</u> MGER TRE
8 8	165.1	7.	6	5		FIRST USED	он ортточ-нооец: 11/730	8-00-08399-0-0	D GL M8390-6	1-0   A

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8	7	6	5	<u> </u>	· 4	3	S A 8-6-60	79 Q	1 .	;
				•	8	1			·	-   ·
PART NUTSEL DEVICE TYP	: 23-032K3-04 : POLIFICH		PART NUMBER: £3-815.5- DEVICE: TYPE: PAL16L8	2 <b>1</b> .		PART NUMBER: 23-01; DEVICE TYPE: PALIS				
	HEET #1D-CS-118398-8-DAPK		SCHEMATIC SHEET #:D-CS	-118339-6-DAPA		SCHEMATIC SHEET ##				
LOCATION/O	SCRIPTION: E41/ INTERRUPT CONTROLLE	R	LOCATION DESCRIPTION:	E25/ FUNCTION CONTROL SIGN	NL GENERATION	1.0C4/ION/DESCRIPTION	ON: E92/ HEX INCREMENT CONT	TROL		D
ASSIGNED P		45 4555 4	ASSIGNED PUN HUMBER:		de been en e	PSSIGNED PIN NUMBER	•			
1* REGISTI E-MALT 3= IPL.4	R.CLOCK 8= T.TRAP 9-/LPG.2 10= SND	15=/VECT.1 16=/VECT.2 17=/VECT.3	1= CSR.22 e= CSR.e1 3= CSR.20	8= CSR.15 . 9= CSR.14 18= 6ROUND	15= DEST.CTL.2 16- SRC.CTL.1B 17= SRC.CTL.1A	1= ALU.N e= CSR.07 3= CSR.03	8=/CON5.ACK . 9-/JUMP.INSTR 18= SND	15= STATE.1 16= STATE.0 17= HC		·     '
ነ።	11 - REO JOUT.EN 12=√[RQ.1	16=-/MSK 19=-/IRQ.OUT	ነ <del>-</del> C5R.19 5= CSR.18	11- MFLIER.LSB 12- ALU.CARRY.IN	18- DEST.CTL.1B	4- C5R.06 5- CSR.81	11=/PORT.IRG 12=/CR.OUT.1	19= ALII.V 19=/DR.OUT.8		
6 IPL.1 7 IPL.8	13-/1RG.8 14=/YECT.8	26- VCC	6- CSR.17 7= CSR.16	13- 5RC.CTL.0 14- 5RC.CTL.2 •	ee- VCC -	6- CSR.00 7-/CONS.ATTN	13- REKUP.FLAG 14- HC	es- VCC		
EQUATION	•		EQUATIONS:		• •	EGLIATIONS:		·		$\vdash$
	= IRO.0#/IPL.4 + IRO.2= IRO.1#IRO.0#/IML.3		•	CTL.1A:= /CSR.2J #/CSR.20#C 19#/CSR.18	5R.18	IFTVCC1 CR.OUT	.8:=/ <b>.119</b> . Instr=/csr.04=cs	R.03=CSR.02=/CSR.81		
	+ IRG.2×IRG.1×IRG.8×/FL.3 + IRG.2×IRG.1×IRG.8×/FL.2 + IRG.2×IRG.1×IRG.8×/FL.1		+CSR.21*CSR.2	19*/CSR.10 0*/CSR.19*/CSR.18*CSR.17 19*CSR.10*/CSR.17		+/ <b>JUN</b> P.IM	00=5TATE_0 5TR=/CSR_64=CSR_03=CSR_02=/ 0=5TATE_1	CSR.01 -		
	+IRQ.0=/IPL.3=/IPL.2 +IRQ.8=IRQ.0=/IPL.3=IPL.8=/IPL.1		+CSR.21×CSR.2	0xCSR.19 9/#2/SR.19#058.12#2058.15	•	+/JUMP.IN #/CSR.	STR=/CSR.84=CSR.83=CSR.82=C 80=/STATE.8			1 1:
	+irg.2=irg.0=/ipl.3=ipl.2=/ipl.0 +irg.1=irg.0=/ipl.3=ipl.2=/ipl.1=/	IIț⊾.⊕	+CSR.21#/CSR. #CSR.15#CS	28*CSR.18*/CSR.17*CSR.16 R.14		+/JUMP.IN	STRE/CSR.84=CSR.03=CSR.02= 0=/STATE.1 STRECSR.34=CSR.83=/CSR.02=	.SR.81 ∕CSR.8I		
VECT.1	-IRG.1=/IRL.4 +IRG.2=IRO.1=/IPL.3 +IRG.6=IRG.1=IRG.8=/IRL.6		IFCCSR.221 /DEST.C +/CSR.20=CSR. +CSR.21=CSR.2	TL.18:- C5R.21=/C5R.26=/C5 19	R.ISHCSR.16H/CSR.17HCSR.16	#/CSR. +/JUMP.IN	60*COHS.ATTH STR*CSR.GH*CSR.G3*/CSR.02*/ 0*COHS.ACX			[C]
	+IRQ.2×IRQ.1*IRQ.0×/IPL.1 +IRQ.1×/IPL.3×/IPL.2		+CSR.28×/CSR. +CSR.26×/CSR.	19		HJUMP.IN	STR#CSR.0H#CSR.03#/CSR.02# 00#/FORT.IRG	CSR.01		
VECT 2	+IRQ.1×IRQ.8×/PL.3×IPL.2×/PL.1×/	IPL.9	IFT/CS1.2E3 /5RC.C +CSR.21#CSR.1	TL.1A+- /CSR.21=CSR.20=/CS	R.19	TUO. NO ECCUPATE .	.11=/limp.instr=csr.04=csr. 0=R8Kip.flag	.03#/CSR.02#CSR.01		
1501.6	= IRO. 2=/IPL.4 + IRO. 2=IRO. 1=/IPL.3 + IRO. 2=IRO. 1=IRO. 0=/IPL.2		+05R.21#/05R. +05R.21#/05R.	28*/CSR.16*CSR.15 28*/CSR.12*/CSR.17*/CSR.15		+/JUMP.IN ≭/CSR.	Str≈csr.8+∞csr.89∞ <b>cs</b> r.02∞/ 00×alu.n≈/alu.y			
	+190.2=160.1=160.0=/17L.1 +17Q.2=/1PL.3=/1PL.2 +17Q.2=/1PL.3=1PL.2=/17L.1		+CSR.21*/CSR. */CSR.16*/	20*CSR.10*CSR.17*/CSR.15 20*/CSR.19*/CSR.18*CSR.17 CSR.15*HPLIER.L58		+/JUNP.IN #/CSR.	STR=CSR. 81=CSR.83=CSR.82=/0 80=/ALU_HEALU.Y	25R.01		
	+IRO.2×IRO.8×/IPL.3×IPL.2×/IPL.6		+CSR.21*/CSR.	29 CSR . 19					•	
VECT.3			•	L.18:= /CSR.21#/CSR.28						
IFTVCC	I IRO.OUT:=VECT.3#ZMASK .		+/CSR.29*/CSR +/CSR.20*CSR.							<u>≩</u> ∢
	+VECT.E +VECT.1 +VECT.0	•	+CSR,21*CSR,2	84CSR.19*/CSR.18*CSR.17 24*/CSR.19*CSR.18*CSR.17*C	5R.16					1:
	+T.TRAP#/IIASK		IFIVCO3 /DEST.CTL. +/CSR.21	2:- CSR.2E	·	• .				3 0-
	•		+05R.20 +05R.19 +05R.10							1000
			+/CSR.17							<u> </u>
			+/CSR.25*C5R.	:= /CSR.22*CSR.21*/CSR.19* 21*/CSR.20*CS7.19 21*/CSR.20*/CSR.17*CSR.16*		•				700 E13
			+/CSR -22×CSR -2	21=/CSR.29=CSR.17 1=/CSR.19=CSR.18=CSR.17					•	8
			IFEVCCI /SRC.CTL.0	1xC5R.20xC5R.19x/C5R.10 := /C5R.22x/C5R.21xC5R.20x	rCSR•19			•		H
			+/CSR.22×CSR. +/CSR.22×CSR.	21*CSR.20*CSR.19*CSR.18*CS 21*/CSR.20*/CSR.17 1*/CSR.19*CSR.18*CSR.17	R.17		•			
	•		+CSR.22*CSR.2 +CSR.22*CSR.2	0xCSR.19 0xCSR.19x/CSR.18xCSR.17						
			•	21*CSR.20*C5R.19*C5R.10*/C .INI = /CSR.22*CSR.21*C5R.2				*		
			+/CSR.22*CSR.	21#/CSR.20#/CSR.15#/CSR.14 21#/CSR.20#/CSR.19#/CSR.16 SR.15#CSR.14						
		• *	+05R.22×05R. +05R.22×05R.2	.17*/CSR.16 :1%C5R.20*CSR.19#/CSR.18#CS	R.17#/CSR.16					
	•	•	+CSR.22*CSR.2	1*/CSR.29*/CSR.19*CSR.10*C	5R.17×C5R.16			<del>23</del> 83€K38		
			<i>.</i>	•				23-915J5-0 23-917J5-0 23-917J5-0	•	
			.; •			•				
	······································	•	<u> </u>			Post		SATE ITTY C.		_     .
THE PROPERTY OF THE PROPERTY OF PERVIOUS AND CHK CHAN	SIONS SE NO. REV				digi	CHK 10. The great	(2)-EF-64)	AND F	A PATH ROM PAL LISTING	5
THEO IN ACTUE IN 19 PER				*	CEK:GLCPOZ.TE	PT 367,1523 323-SEP-81	DATE EGGED LOCATION: 16:27 FEXT HIGHER ASSENSLY: 18:00-119390-0-0	D GL M839	NUMBER REV	<i>7</i> - 1
KTOL ESUIPRIOR DISSEMBLIER	7	6	5	Å	4	3	2		1	

									·	•
	PART HUNSER! 23-QOIKY-	-04	•	PART HUMBERT 23-088KY-	<b>-96</b>		PART HUNDERS 23-00			
	DEVICE TYPE: PALIERS			DEVICE TYPE: PALIERS	•		DEVICE TYPE! PALIS			
	SCHOWTIC SHEET WID-CS	i-ri83 <del>90-0-0/PF</del>	•	SCHEMIC SHEET BID-CS			SCHEINTIC SHEET 911			
	LOCATION/DESCRIPTION	ESAN IN CONTINON		LOCATION/DESCRIPTION	E95/ HISC CONTROL		LOCATION/DESCRIPTION	OHI E97, E99, E119, HICRO-PC-F1	VE BIT SLICE .	
	ASSIDNED PIN NUMPER		.8.4	ASSIGNED PIN NUMBER			ASSIGNED PIN NUMBER	RI		
	1 = REGISTER.CLOCK 2 = TREG.IBFILL 3 = T.81 4 = T.89 5 = DECODE.IMSTR 6 = CSR.00	9= LOAD.IB 9=/DATA.REGUEST 18= DAD 11= REG.OUT.EN.L 12=/DATA.RECE [VED 13=/IB.LOADED	15= PC.EQUALS.3 16= PC.8 17= PC.1 18=/18.VALID 19=/CLOCK.P2 28= VCC	1= REGISTER.CLOCK 2= MISC.INSTR 3= CSR.15 4= CSR.19 5= CSR.10 6= CSR.12	8= RESET 9=/IRO.STATE 18= GNO 11= RES.OUT.EM 12= PORT.INSTR 13= SEL_ACC	15- STATE.1 16- CPU.ACK 17- CPU.ATTN 18- LICS.PROE 19-5ET.ABKLP 28- VCC	1 = CLX .UPC 2=/0.4 2=/0.3 4=/0.2 5=/0.1 6=/0.9	6=/P2 9= PARL.LD.CSR 18= GAO 11= EH.UPC.L 12= SI 13= UPC.0	15= LPC.2 16= LPC.3 17= LPC.4 18= NC 19= PROP.L\\$0 28= VCC	
	7= CPU.P2	14= STALL.ON.IB		7= CSR.18	14= STATE .		7=/P1	14= UPC.1		
	EQUATIONS:			EQUATIONS	•	,	EQUATIONS:			
	IB.LORDEDI = LORD. [	LONDED .		IFT VCC 1 SET .RBKUP1 MCSR.12	HILSC.INSTRUCSR.184/CS	R.15=CSR.14=CSR.13		#RAL_1LD,CSR™1™2×0.4	•	
	[8.VALIDI = LOAD.IR	=CLOCK.P2		AUCS . PAGE! HILSC . IN	HSTRIL/CSR.19HCSR.19H/CSR.	.I4=CSR.13=/CSR.18	+P1 +P1	ARAL.LD.CSRIVPIIVO.		
	+ IB .LOADED =CL +CPU.P2=/TREG	. IBFILL # DECODE . INSTRUIR	.val.id	+/HISC.IHSTRM +CSR.18M/HCS.	.PAGE		APC-11=/PARAL	.LD.CSR=/LPC.B		
	+CPU.P2=/nREQ	. IBFILL=/CSR.49=18.VALID . IBFILL=/PC.EQUALS.3=18.V	MALED	+/CSR.15#/HCS +CSR.14#/HCS.	PAGE	*	+ <del>P</del> 1	9886.LD.CS8=P1= <b>P2=0.8=0.</b> I 9886.LD.CS8=/P1=/0.1		
	+/CPU.P2=18.V	ALID	·	*/CSR.13#/HCS */CSR.12#/HCS	S.PAGE		+P1 +P1	ARAL.LD.CSR=/P2=/D.1 ARAL.LD.CSR=/D.8=/D.1	•	
	+DECODE.INSTR	#/Y.01#CPU.P2 #CSR.00#/Y.01#CPU.P2		•RESET			APC.21=/PARAL	.LD.CSR#/LPC.1	•	
	+/MREQ.IBFILL +/MREQ.IBFILL	.#/DECODE.INSTR#/PC.1#CPU. .#/CSR.28#/PC.1#CPU.P2	.re	+/MISC.INSTR=		1420年1320年18	+Pi +Pi	989L.LD.CSR#P1#P2#D.8#D.1#D.2 989L.LD.CSR#/P1#/D.2		
	+/PC.1=/CPU.P			+CSR.18#/CPU +/CSR.15#/CPU	U.ATTN		+P/	ARAL.LD.CSR#/P2#/D.2 ARAL.LD.CSR#/D.8#/D.2		
	PC.8: HREQ.IBFILL +DECODE.INSTR	**CSR.08**/Y.00**CPU.P2		+/CSR.14%/CPU	U.ATTN			RAL.LD.CSRW0.1W0.2		
	+/HREQ.[6FiLL	.=/DECODE.[NSTR=/PC.0=CPU. !=/CSR.08*/PC.0=CPU.P2	.PZ	+CSR.12=/CPU. +RESET	ATTN.		/UPC-31 =/PARAL.	989L.LD.CSRxP1xP2x0.0x0.1x0.2x0	.3	
	+/PC .8=/CPU.P			/CPU.ACKI HITSC. INS	STR#/CSR.18#CSR.15#CSR.15	+x/CSR.13x/CSR.12	+P/ +P/	ARAL LD.CSR=/P1=/D.3 ARAL.LD.CSR=/P24/D.3		
	+hREQ.IBFILL=	.IBFILL=ZT.@1=CPU.P2	•	*/MISC.INSTR* *CSR.18*/CPU.	.ACK	·.	+Pf	ARAL.LD.CSR#/D.8#/D.1 ARAL.LD.CSR#/D.1#/D.3	•	
	+OECODE.INSTR	HECSR.03=/T.01=CPU.P2		*/CSR.15#/CPU */CSR.14#/CPU	u.ack			RAL.LD.CSR#/0.2#/0.3		
	+/MPEQ.[BFILL	EQUALS . 34CML . 34CML . 34CML	5.3=CPU.P2 U.P2	+CSR.13*/CPU. +/CSR.12*/CPU	JACK JACK		/UPC . 41 = /PARAL . +PARA	C. 045. 041. 048. 04194 19270. CL. LL	<b>=0.</b> ¥	
	+/PC.EQUALS.3		•	+RESET	·	· 	+PAR/	AL.LD.CSR*/P1=/D.4 AL.LD.CSR*/P2=/D.4		
	/STALL.OH.18:=18.V HREQ.18F1LL	MLID DECODE.INSTR=CPU.PZ	•	STATE.1:=IRO.STAT	/CSR.18m/CSR.15m/CSR.13m/	∕C5R.12	+PARA	NL.LD.CSR#/D.0#/D.4 NL.LD.CSR#/D.1#/D.4		
	IFT VCC ) DATA . RECE!	VED: =MRED. IBFILL		+>fflSC.iNSTR=	/CSR.18#/CSR.15#/CSR.14#/	/CSR.13	+Pari +Pari	NL.LD.CSR#/D.2#/D.4 NL.LD.CSR#/D.3#/D.4		
	+DECODE.INSTR +DATA.REQUEST	CSR.09#PC.EQUALS.3		+CSR.18#/STAT +CSR.15#/STAT	TE.1 TE.1		[FEVCC] /PROP.L	SOI =/PARAL.LD.CSR#/UPC.4		
				+/CSR.13#/STA +CSR.12#/STAT	ATE.1		+PARAL	LD.CSR=D.0=D.1=D.2=D.3=D.9		
				STATE . 8: = LRO . STAT	TE					
				+ft[SC.[\STR=/	/CSR.18=/CSR.15=/CSR.14=C /CSR.18=/CSR.15=/CSR.14=/	.5R.17 /CSR.18				
				-/115C.1HSTR= -CSR.18=/STAT	TE.8					
			•	+CSR.15=/STAT +CSR.13=/STAT	TE.9					
				+/C5R.12=/STA						
				+∕nisc.instr=	STR#/CSR.18=CSR.15=/CSR.1 #/SEL.ACC	4#/CSR.13#CSR.12	•			
				+CSR.18#/SEL. +/CSR.15#/SEL	L.ACC					
				+CSR.14#/SEL. +CSR.13#/SEL. +CSR.12#/SEL.	.ACC					
				+RESET	armete					
				IFTVOCI /PORT.THST	ri=/nisc.instr					•
				7/12/01/13						
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				••	•				23-081K4-08 23-082K4-08	
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P ESTIMATE CONTRACTO	REVISIONS  REVISIONS  REVISIONS  REVISIONS  REVISIONS  REVISIONS  REVISIONS  REVISIONS						G ORN T THomas	111-659-61	TITLE DATA PE	ATH ROM
SED IN WOLLOW IN	CIUS OF	!					CHK'D.	DATE SHEET RE OF THE	AND PAL	LISTINGS
272 1 24 1 4 1 4 1 4 4	-2-77F34	i			1.	DSK: GLOPRE	. 12PL 367 1500 111-5EP-81 1	5: 12 INEXT HIGHER ASSEMBLY	D GL M8392-2-2	IR REV.

March   Marc	PROGRAM \$8(11) ** 14-5	FP-87 13:46:22	SCALE: 0.500	GUDPE9.P_0 5	¥ 4	3	2   0   0-	0 968.8U 79 0 1 97 188.339 9 1 188.339 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
COLUMN CO					HEX HEX SIN LOC DAT DAT				
## 55 16300161	900	0+0 07 000020111 0+1 07 00020111 0+2 07 00020111 0+3 07 00020111 0+4 07 00020111 0+5 07 00020111 0+5 07 00020111 0+6 07 00020111 0+6 07 00020111 0+7 07 00020111 0+8 07 00020111 0+9 07 00020111 0+9 07 00020111 0+9 07 00020111 0+0 07 00020001 0+0 000200001 0+0 000200001 0+0 000200001 0+0 00020000000 0+0 0002000000000000000	889 98 200600000 891 90 20200000 883 90 20200000 883 90 202000000 885 90 202000000 885 90 202000000 886 90 202000000 887 90 202000000 889 90 202000000 889 90 202000000 880 90 202000000 891 13 202110011 892 90 2020000000 893 13 202110011 894 90 2020000000 895 90 2020000000 896 90 2020000000 897 90 2020000000 898 90 202001101 899 90 2020000000 898 90 202001101 899 20 2020000000 898 90 2020000000 898 90 2020000000 898 90 2020000000 898 90 2020000000 898 90 2020000000 898 90 2020000000 898 90 20200000000 898 90 20200000000 898 90 20200000000 898 90 202000000000000000000000000000000	9C3 FF 11111111 9C1 FF 11111111 9C2 FF 11111111 9C3 FF 11111111 9C5 FF 11111111 9C5 FF 11111111 9C6 FF 11111111 9C7 FF 11111111 9C8 FF 11111111 9C8 FF 11111111 9C8 FF 11111111 9C9 FF 11111111 9C9 FF 11111111 9C9 FF 11111111 9C0 FF 11111111	120	140 00 00000000000000000000000000000000	180	1C0 80 20236293 1C1 90 20236293 1C2 20 00030200 1C3 20 02360000 1C4 00 00030200 1C5 00 00030200 1C5 00 00030200 1C7 00 000302000 1C8 00 000302000 1C9 00 00030000 1C9 00 00030000 1CD 00 00030000 1CE 20 00030000 1D0 01 00020001 1D2 01 00020001 1D3 01 00020001 1D4 01 00020001 1D5 01 00020001 1D6 01 00020001 1D7 01 00020001 1D8 01 00002001 1D9 01 00020001 1D9 01 00020001 1D9 01 00020001 1D9 01 00020001 1DE 01 00020001 1DE 01 00020001 1DE 01 00020001 1DE 01 00020001 1ED 02 00020010 1ES 02 00000010 1ED 02 00000010	
SINARY DATA "1" = HIGH SINARY DATA "0" = LOH  DRN, THUSEN DATA PATH ROM  SINARY DATA "0" = LOH  DRN, THUSEN DATA PATH ROM  SINARY DATA "0" = HIGH SINARY DATA "1" = HIGH SINARY DATA "0" = LOH  DRN, THUSEN DATA "0" = LOH  DATA PATH ROM  SINARY DATA "0" = LOH  DRN, THUSEN DATA "0" = LOH  SINARY DATA "1" = HIGH SINARY DATA "0" = LOH  DRN, THUSEN DATA "0" = LOH  SINARY DATA "0" = LOH  SINARY DATA "0" = LOH  SINARY DATA "0" = LOH  DATA PATH ROM  SINARY DATA "0" = LOH  SINARY DATA "151   LOH  SINARY D	02F 6D 01101101 030 85 10000101 031 85 10000101 032 92 10010010 033 95 10000101 034 9F 10011111 035 AD 10101101 037 9F 10011111 038 88 10111011 039 98 10111011 039 C8 11001000 038 88 10111011 039 D5 11010101 035 D5 11010101	96F SD 91191191 979 95 10909191 971 95 10909191 972 92 1091901 973 95 10909191 974 9F 10911111 975 9F 10911111 976 AD 10191191 977 9F 10911111 978 9B 10111911 979 8B 10111911 979 8B 10111911 979 8B 10111911 970 05 11919191 970 D5 11919191	0AF 6D 01101101 090 85 10000101 091 95 10000101 092 92 10010010 093 85 10000101 095 9F 10011111 095 AD 10101101 097 9F 10011111 098 89 10111011 099 99 10111011 090 098 89 10111011 09C D5 11010101 09C D5 11010101	0EF FF 11111111 0F0 FF 11111111 0F1 FF 11111111 0F2 FF 11111111 0F3 FF 11111111 0F5 FF 11111111 0F6 FF 11111111 0F6 FF 11111111 0F9 FF 11111111	12F	16F 6D 01101101 170 85 10000101 171 95 10000101 172 92 10010010 173 85 10000101 174 9F 10011111 175 9F 10011111 176 AD 10101101 177 9F 10011111 178 88 10111011 179 88 10111011 179 88 10111011 170 D5 11001001 170 D5 11010101 170 D5 11010101	1AF 5C 01011100 180 28 00101011 181 28 00101011 182 2C 00101100 183 2C 00101100 185 31 00110001 185 31 00110001 186 38 00111000 187 38 00111000 187 41 01000001 189 41 01000001 189 49 01001001 189 49 01001001 180 53 01010011 180 53 01010011 180 50 01011100  PART MUMBER: 25 DEVICE TYPE: 55 SCHEMATIC SHEET	1EF	NTROL.
				*			8INARY DATA "1"	' = HIGH	
	THE CHARLES HE SECRET THE STATE OF PEVISIONS  ESTIMATE THE SECRET OF PEVISIONS  FOR THE SECRET OF TH	v v				OSK: GLOPO9.TEP(367,1500)[11-	DATE EXPO LOCATION SEP-81 15113 NEXT HIGHER ASSEN	SET SIZE CODE NUTS	LISTINGS

PROGRAM \$A(11) ** 14-	SEP-87 13:58:12	SCALE: 8.500	GUDP10.P 0 5	V : 4	3	S   4-0-00558H	ווסומ
HEX HEX BIN LOC DAT DAT 900 84 888180	MEN HEX BIN LDC DAT DAT BND BE 00001110	HEX HEX BIN LOC DAT DAT	HEX HEX SIN	HEX HEX BIN LOC DAT DAT	HEX HEX BIN LOC DAT DAT	HEX HEX BIN LOC CAT DAT	HEX HEX BIN LOC DAT DAT
901 04 0222100 902 15 0000101 903 05 00000101 904 06 00000100 905 04 00000100 906 15 00000100 908 04 00000100 909 04 00000100 900 04 00000100 900 04 00000100 900 04 00000100 900 04 00000100 900 04 00000100 900 04 00000100 900 04 00000100 900 04 00000100 900 04 00000100 901 04 00000100 902 04 00000100 902 04 00000100 902 04 00000100 902 04 00000100 902 04 00000100 902 04 00000100 902 04 00000100 902 04 00000100 902 04 00000100 902 04 00000100 902 04 00000100 902 04 00000100 902 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100 903 04 00000100	### 9E 90901110 ### 9E 9E 90901110 ### 9E 9E 9090110 ### 9E 9E 9090110 ### 9E 9E 9090110 #### 9## 9E 909010 ###	936 27 92180111 981 27 02180111 983 27 90190111 983 27 90190111 985 27 90190111 985 27 90190111 985 27 90190111 986 27 90190111 987 27 90190110 988 94 92990190 988 94 92990190 988 94 92990190 988 94 92990190 988 94 92990190 989 94 92990190 991 94 92990190 992 94 92990190 993 94 92990190 994 94 92990190 995 94 92990190 995 94 92990190 996 94 92990110 997 94 92990111 988 97 92990111 989 97 92990111	900 30 20110000 90110000	100   SD   1000  101   101   102   103   103   103   103   103   103   104   104   105	148	1A3 CC 11001100 1A4 CC 11001100 1A5 CC 11001100 1A6 CC 11001100 1A7 CC 11001100 1A8 CC 11001100 1A9 CC 11001100 1AA CC 11001100 1AA CC 11001100 1AA CC 11001100 1AB CC 11001100 1AC CC 11001100 1AC CC 11001100 1AE CC 11001100 1AE CC 11001100 1AE CC 11001100 1AE CC 11001100 1AF CC 11001100 1BS C9 11001001 1B1 C9 11001001 1B2 C9 11001001 1B3 C9 11001001 1B4 C9 11001001 1B5 C9 11001001 1B6 C9 11001001 1B8 C9 11001001 1B8 C9 11001001 1BB C9 11001001 1BB C9 11001001 1BB C9 11001001	100
	*	·				PART NUMBER: 23-133F3 DEVICE TYPE:1024 X B SCHEMATIC SHEET #:0-C LOCATION/DESCRIPTION:	5-M8390-0-DOPF
ITS DIMENSIAN OF SPECIF CALLESS PEVISIONS						LEFT COLUMN OF 81N DA BINARY DATA "1" = HIG BINARY DATA "0" = LON	TA IS MSB
TE DANGE AND SPECIFICATIONS  FIN. AS THE DESCRIPT OF PEVISIONS  FIN. AS THE DESCRIPT OF PETERS  LITTLE SUPPORT CONTROL OF THE PROPERTY OF THE	*/ * *				OSK: 3.0018.12F.352.1583]11-569	DATE SOURCE LOCATION:	AND PAL LISTINGS
8	7	6	5	<b>A</b> 4	FIRST USED ON OPTION MODEL: 11	-81 15:13 NEXT HIGHER ASSEMBLY: S	TZE ICODE NUTSER KEY. D GL M8390-0-0 A

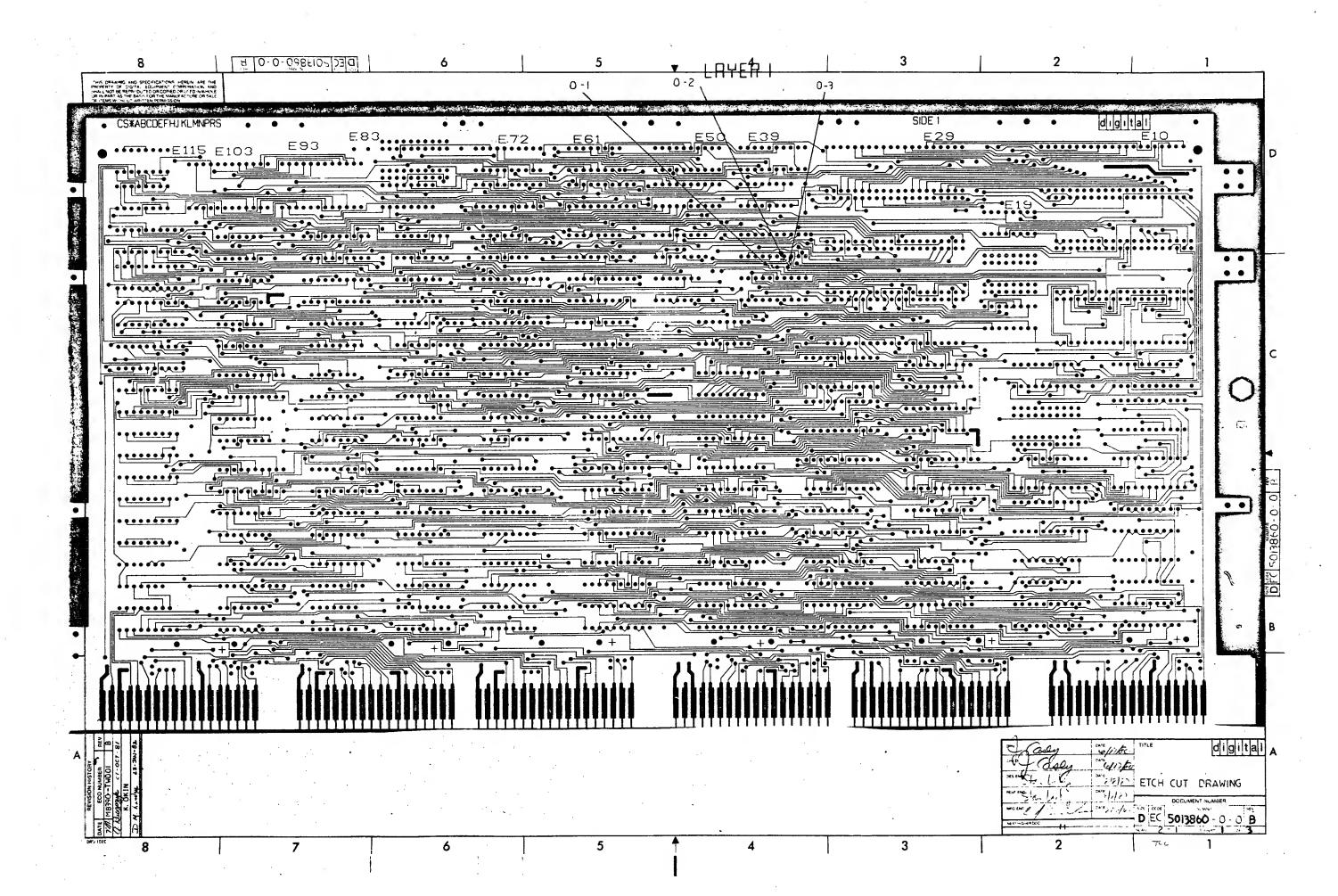
March   Marc	PROGRAM PALLL: 114-5	EP-87 14:10:09	SCALE: 9.500 0	SUDP11.P 0 5	V	3	2 8 8-8-965E94 79 d	1 .
20	HEX HEX SE							
DEVICE TYPE:1024 X 8 SCHEMPTIC SHEET #:D-CS-M8390-0-DAPF SCHEMPTIC SHEET #:D-CS-M8390-0-DAPF LCCATION/DESCRIPTION: E103 / OPCODE DECODE  LEFT COLUMN OF BIN DATA IS MS8 SINARY DATA "1" = HIGH BINARY DATA "0" = LOH	201 EA 11 1 1 1 1 1 2 2 2 2 0 1 2 2 2 2 2 2 2	241 0C 30001100 242 00 00030000 244 49 01001001 245 4E 010011101 246 28 00110100 247 20 00110101 249 A0 101101101 249 B6 1011010 249 B6 10110110 240 FC 111111100 240 FC 111111100 241 FC 111111100 245 FC 111011111 250 FC 11101100 255 FC 01011111 250 FC 111011111 250 FC 111011111 250 FC 11101100 251 FC 01011111 252 FC 01011111 253 FC 01011111 255 FC 01011111 256 FC 011101100000000000000000000000000000	281 00 02000000 282 3D 00111101 283 00 02000003 284 00 02000003 285 1A 02011010 285 2C 00161100 285 43 01000011 289 48 01001011 289 46 01101100 280 56 01010110 280 56 01010110 280 56 01010110 280 56 01010110 280 56 01010110 281 4C 01001100 282 6A 01101010 283 54 01001100 284 00 00000000 291 00 000000000 292 7A 01111010 293 CD 11001101 294 00 000000000 295 C6 11000110 296 00 000000000 297 00 000000000 297 00 000000000 298 00 10001101 299 00 111010101 290 E3 11100001 290 E3 111000110 290 E3 111000110 291 00 000000000 292 01 0000000000 293 00 000000000000000000000000000000000	2C1	301 BC 10111100 302 BD 10111101 303 BC 101111101 304 BE 10111110 305 D8 11011000 306 BC 10111100 307 BC 101111001 309 79 01111001 309 79 01111001 300 BC 10111100 301 BC 10100110 310 C1 11000001 311 BO 10110000 312 AF 10101111 314 AF 10101111 315 AF 10101111 315 AF 10101111 316 ED 1110101 317 EG 111001101 318 AF 10101111 319 AF 10101111 310 AF 10101111 310 AF 10101111 311 AF 10101111 312 AF 10101111 315 AF 10101111 316 AF 10101111 317 AF 10101111 318 AF 10101111 319 AF 10101111 310 AF 10101	341 1D 00011101 342 0B 00001011 343 1D 00011101 344 0B 00001011 345 1D 00011101 346 3 00001011 347 1D 00011101 348 4C 01001100 349 4C 01001100 349 4C 01001100 340 8D 10001101 345 9D 10001101 356 59 01011001 351 4C 01001100 352 59 01011001 353 59 01011001 353 59 01011001 355 8C 10111100 356 4C 01000110 357 8C 10111100 358 8C 10111100 358 8C 10111100 359 8C 10111100 356 8C 0010101 366 8C 0010101 367 3C 00111100 368 6C 01100010 369 6C 01100010 360 8D 10001101	381 C4 11828189 3C2 Q4 98808189 382 Q4 98808189 3C2 Q1 98808189 3C3 QE 11881118 3C3 QE 1188111 3C3 QE 118811 3C3 QE QE 9880811 3C4 QE 9880818 3C4 QE 98808 3C4 QE	30 30 30 30 30 30 30 30 30 30 30 30 30 3
SINARY DATA "1" = HIGH SINARY DATA "0" = LOW			·	*		•	SCHEMPTIC SHEET #:D-CS-M8390-0-DAPF LCCATION/DESCRIPTION: E103 / OPCODE	DECODE
CATE ENG. DATA PATH  CATE ENG. DATE TITLE! DATA PATH  AND PAL LIS  DECISION DATE TO BE			•	0	·	سرور الماني	SINARY DATA "1" = HIGH BINARY DATA "0" = LOH	

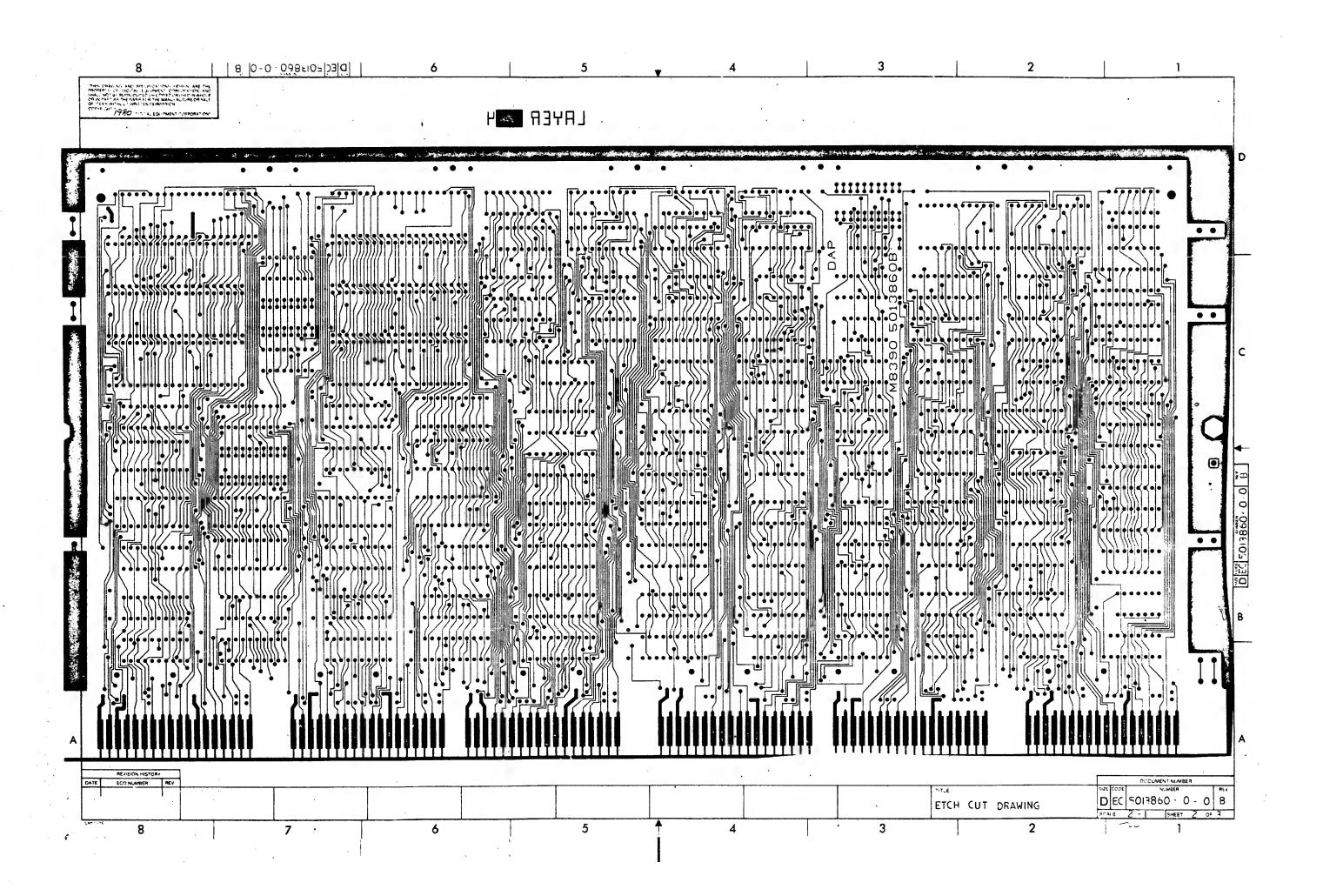
	Harris Company of the control of the		8 HEXC. 801823456789488CDEF8112345678948678948678948678948678948678948678948678948867888678	. 8	
	PEVISIONS	**	HEX SIN DAT		
	7		#EX HEX BIN DAT DAT BYO 3 0011 041 3 0011 042 3 0011 044 3 0011 045 3 0011 05	7	
	6		6  HEX HEX BIN LOC DAT DAT  088 8 1698 801 8 1698 8081 8 1698 8082 A 16918 8083 F 11111 884 9 1691 885 8 1691 885 8 1691 885 8 1691 885 8 1691 886 8 1698 8081 1686 8 1698 8 1691 885 8 1691 885 8 1691 885 8 1691 885 8 1691 885 8 1691 895 8 1691 895 8 1691 8 1691 895 8 1691 8		
	5		HEX HEX BIN LOC DAT		
· ,	<b>A</b> 4	 -	HEX HEX BIN DAT  188		
	DSKIGLDP12.12P 357,1599 121-5CP- FIRST USED ON OPTION-MODEL 11.		HEX HEX BIN LOC DAT DAT  140 0 8800 141 0 88	•"	
	DATE STATE DATA	PART NUMBER: 23-945A9-80 DEVICE TYPE:512 X 4 SCHEMATIC SHEET #: 0-CS-M8398-8-DAPA LOCATION/DESCRIPTION: E+6 / ALU CON  LEFT COLLINN OF BIN DATA IS MS8 BINARY DATA "1" = HIGH BINARY DATA "0" = LOW	Page	1	
•	PATH ROM LISTINGS	TROL .		a	
					,

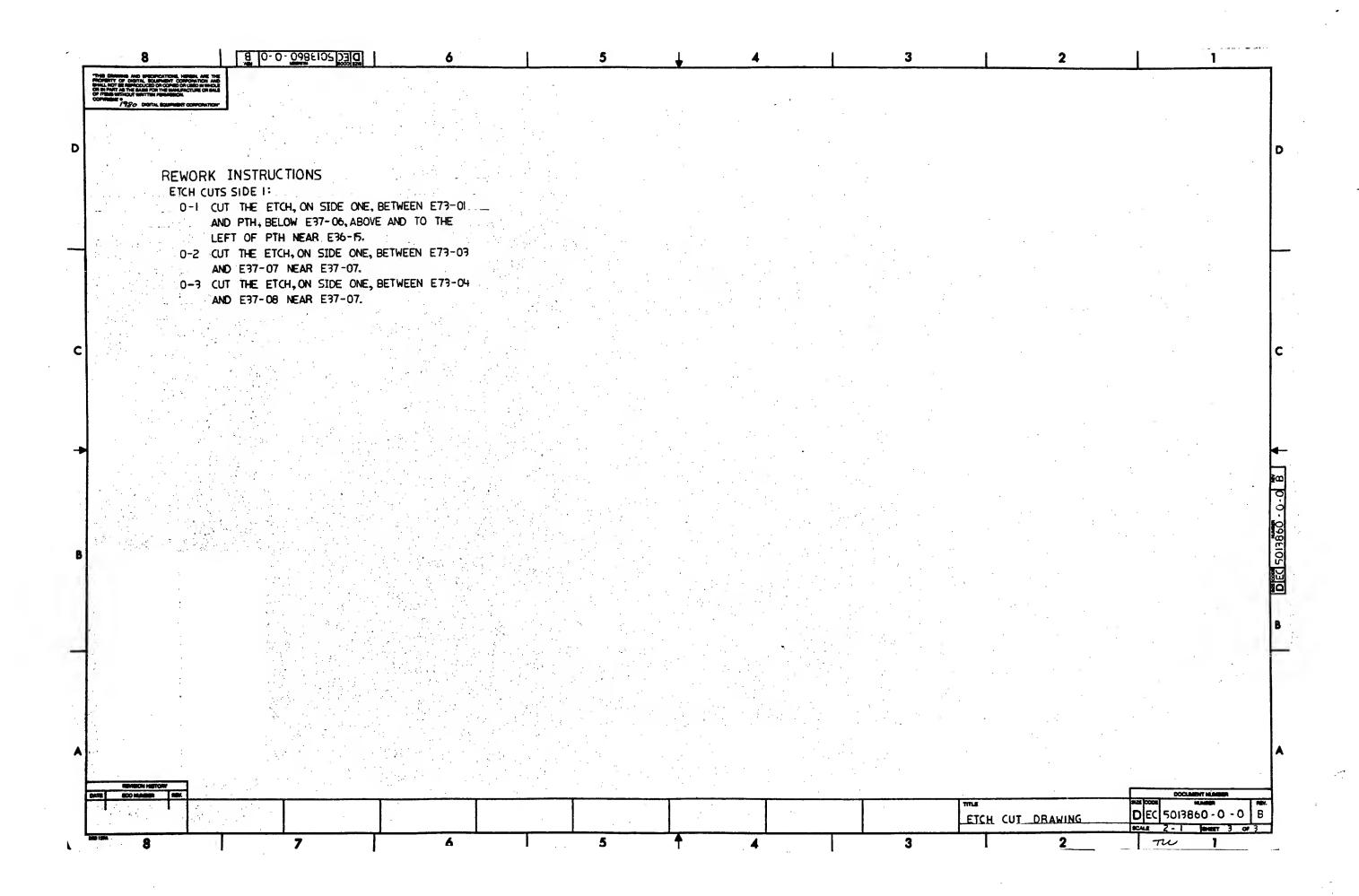
8	7	6 .	5	<b>У</b>	3	2	
HEX HEX BIN LOC DAT DAT	HEX HEX BIN HEX LOC DAT DAT LOC	HEX BIN DAT DAT	HEX HEX BIN LOC DAT DAT	HEX HEX BIN LOC DAT DAT	HEX HEX BIN HE LOC DAT DAT LO	EX HEX BIN HEX HEX BIN DC DAT DAT LOC DAT DAT	
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				-		DEVICE TIPE:512 X 4 SCHEMATIC SHEET #:0-C5-M8398-8-DAPF LOCATION/DESCRIPTION: E82 / D.T. & C.C. CLASS LEFT COLLAN OF BIN DATA IS MS8	
					DE 100 DEN	BINARY DATA "1" = HIGH BINARY DATA "8" = LOW	OM
THIS DESIGN OF SECTION OF REVISIONS  WHITE AND THE SECTION OF CHICAGO HO. IN  THE BASIS FOR THE RELIGIOUS OF  THE BASIS FOR THE BASIS FOR THE BASIS OF   NEV .			-	DESTRUCTION OF TRANSPORT AND CONTROL TO SEE THE SEE ON OPTION PROBLEM 11/7	DATE   SECEND LOCATION:   AND PAL LIST	INGS	
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3 PRUCRAM \$4(111 ** 126-SEP-87	11:43:22 SCALE: 50.500	CHUTD.PLD 5	V 4	3 2 5 X-	2-9658H 01 0 1
Daia Pain.				138 138 138	3-96584 01 0 N 3000 12(6
19 29 38 48	59 59 59	160 110 120	130 140 150 160	179 189 199 286 210 220	250 260
(ADRS OUT WRITE DATA OUT AND DATA IN)				·	
LS ADRS BEN		Ties	T195 STON EXTENDER		
CSR DELAY GATE MUX SELECT	LOCAL STORE RAM ACCESS TIME LS L	AYCH DELAY TO HC BUS	MULTIPLEXER BUFF		COND. CODE LOGIC SETUP TIME (PAL)
		18 ADDRESS. OUT TO I CONTROL VALID	ENORY DATA IN		46
DISABLE ALL D - BUS DRIVERS		DIABLE TIME 2901A D		- 2981A D> Y OUT,PASS HODE - D	LS RAM   ATA  ATA  LOCAL STORE RAM HRITE PULSE
	₩ <b>9</b> 22 0	naxo 35	18	12	5 45
ARITHETIC READ-HODIFY-WRITE	·		32-BIT CARRY LOOKAHEAD		
CSR DELAY ALLI FUNCTION CONTROL CODE	GENERATION (ROM DELAY) 2981A ALL	FUNCTION CTL> G P	- G,P>G,P G,P->C C> C	20010 20000	CONDITION CODE LOGIC SETUP TIME
19 69			14 10 7 10	59	13 46
LIORX ING REG ADDRESS GENERATION		1		2981A CARRY> DATA OUT - DE	LS CAN : AYA AYA ITUR LOCAL STORE RAN LIRITE PLLSE
ALU SOURCE CONTROL CODE GENERATI			, ·	38 21	5 45
2901 MILTIPLY CYCLE (MSB) 40	. 25	. •			
NULTIPLIER LSB ACCESS ALU SOURCE CONTROL COO	5 marrier		32 - BIT CARRY LOOKAHEAD	7->CONDITION CODES	
25 49	18	ALU FUNCTION CTL> G1P	19 7 18	SHIFT DAYA LOGIC (PAL)	- 2901A RAN SHIFT IN SETUP
CSR DELAY WORKING REG ACCRESS GENERAL		.;		1	20 25
CSR DELAY MORKING REG ADDRESS GENERAT	ION 2381A A.B.	95> RAN SHIF	T OUT SHIFT	DATA LOGIC (PAL)	2901A SHIFT IN SETUP
2901 SHIFT/MLLTIPLY CYCLE	1 1	108	•	10 52	25
Ran->Q, Ran->Ran	- 2991A RAM ADDRESS -> Y OUT (BYP)	SSING ALU)			
ACCEL/PORT DATA TRANSFE					3.4
SIGNERGE ALLI DESTINATION CONTROL CON	E GENERATION (ROM, PAL) 2981A DEST CTL BYPASSING	> Y OUT TRANSMIT DATA VALID ON Y-BUS	i	22 <b>0</b>   1   2   2   2   2   2   2   2   2   2	5
SPECIFIER DECODE 60	38	HICK	ADDRESS BITS		LOCAL STORE URITE PLLSE
IB BYTE SELECT		1	1, 3:0> VALID   133		
PC (119) REG (PAL) GATE DECODER [8 87]			TEX	CONTROL STORE ACCESS	CSR SETUR 8
OFCOSE DECODE (IRD)	,			1 3 2	3
CSR DELAY GATE DECODER IN BYTE ENGR	E IRD ROM ACCES	S TIME -			
14 6 12 18	7 6	1 3	MICRO ACORESS BI		
SCTL FIELD DECODE (PAL)	GATE GATE MPC GUTPUT ENGILE	LOW INCREMENTER D ->Y -	(19:4> VALID		
SCIPPED SN		1	NTER CIN> D OUT (PAL) HLD.	CONTROL STORE A	C C E S S CSR SETUP
#STACK ADDRESS GENERATION	1 30 µSTACK RAM ACCESS TIME	17	49 6	104	5
T39 MLEX	SKIP CONDITION SELECTION GATE	ON INCREMENTER C IN> C OUT		• (7)	CPU HICROCYCLE TIHING DATA PATH AND HICRO-SEGUENCER
SKIP CONDITIONS STABLE 8	48 6	22		A. A. A	DATA PATH AND MICRO-SEQUENCER
PEVISIONS  DE CAPPE LA CHANGE NO. REV		•	ali	DATE DAG.	DATE TITLE: 11/730 CPIJ -
The state of the s	i .			CHE TO CHE TO CONTENT	MICROCYCLE TIMING
8 7	6	5	<b>↑</b> 4	USED ON OPTION/HODEL 11/738	D TD M8390-0-X A

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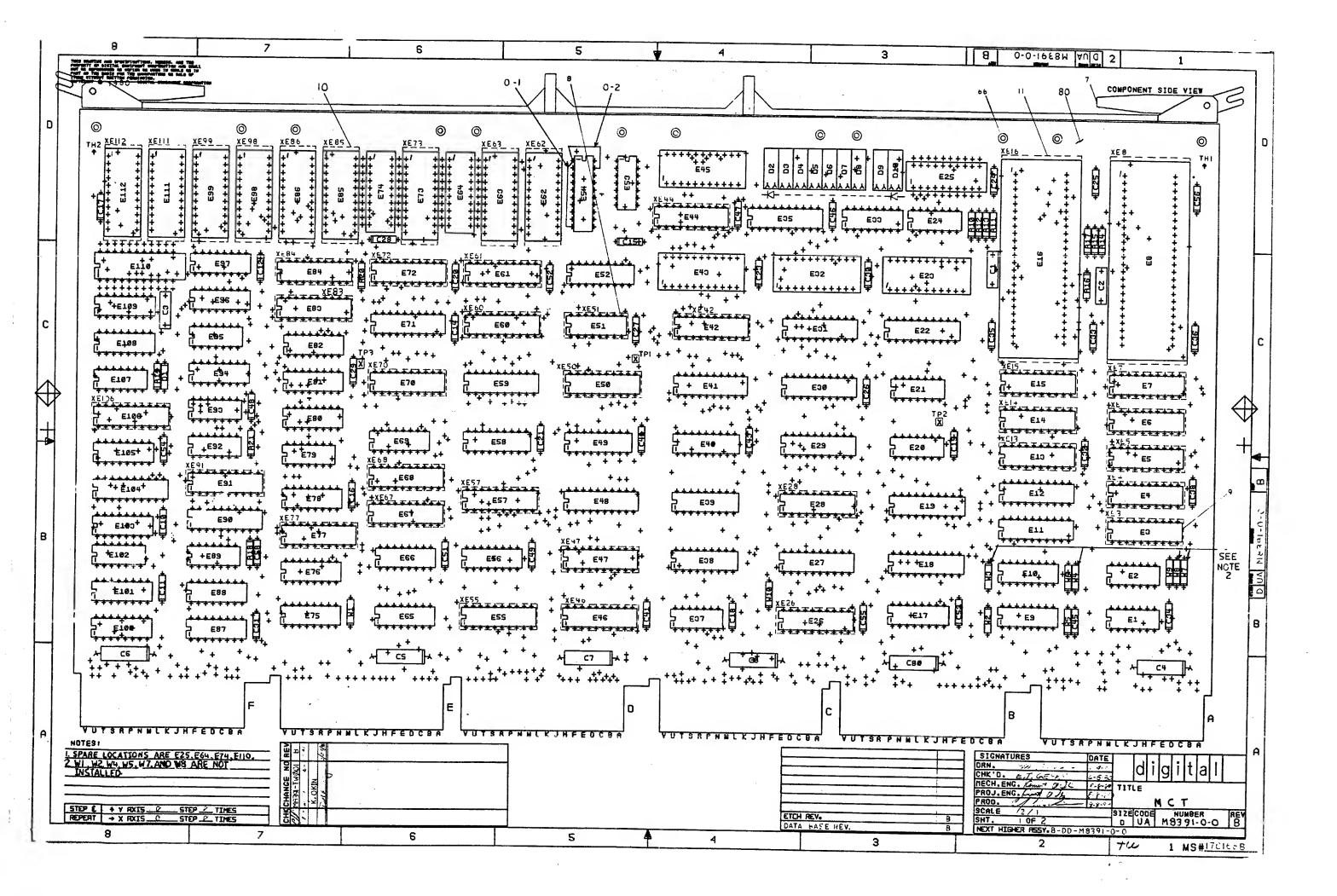


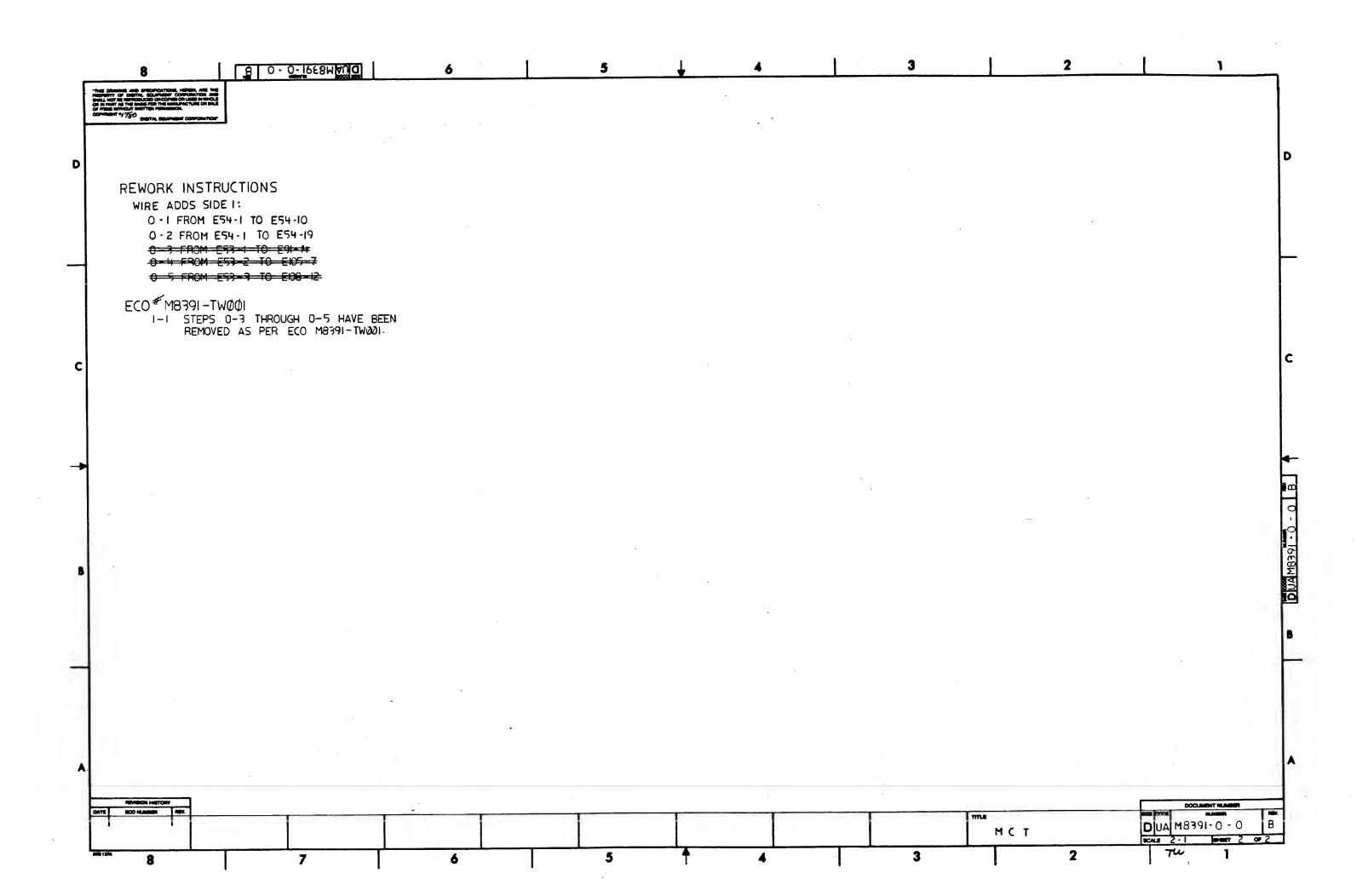
B DD SIZE CODE DRAWING NO. OF PART NO. **DESCRIPTION REVISIONS** MODULE REVISION ABC B-DD-M8391-0 1 DRAWING DIRECTORY ABC D-UA-M8391-0-0 2 ABB UNIT ASSEMBLY K-PL-M8391-0-DBP 3 ABC PARTS LIST BBB 5013893 ETCH BOARD K-PC-5013893-0-DBC BBB DESIGN DATA BASE PC BOARD 5 D-MD-5013893-0-0 AAB MECHANICAL DRAWING D-EC-5013893-0-0 3 ABB ETCH CUT DRAWING K-CS-M8391-0-DBS DESIGN DATA BASE SUDS ABB D-CS-M8391-0-MCTA 1 ARRAY CONTROL ABB D-CS-M8391-0-MCTB 1 **VAR AND ADDRESS DECODERS** ABB D-CS-M8391-0-MCTC 1 TRANSLATION BUFFER ABB D-CS-M8391-0-MCTD 1 ABBB BUS MC DRIVERS, CLOCK GENERATION D-CS-M8391-0-MCTE 1 A B B ARBITRATOR AND POWER UP/DOWN D-CS-M8391-0-MCTF ABB 1 CONTROL AND STATUS REGISTERS D-CS-M8391-0-MCTH ABB 1 UNIBUS ADDRESS XCVRS AND TERMINATOR D-CS-M8391-0-MCTJ 1 ABB ECC CONTROL D-CS-M8391-0-MCTK 1 DATA CONTROL AND REFRESH LOGIC ABBB ABBB D-CS-M8391-0-MCTL 1 DATA ROTATORS/LATCHES D-CS-M8391-9-MCTM 1 ABB CONTROL STORE D-CS-M8391-0-MCTN 1 ABB FILTER CAPACITORS D-BD-M8391-0-0 1 - A B MEMORY BLOCK DIAGRAM D-GL-M8391-0-0 16 - A B ROM AND PAL LISTINGS 3 - A B D-TD-M8391-0-0 MEMORY TIMING DIAGRAM **NOTES:** 0 CHG NO. TW001 -81 DRN. J. CASEY USED ON OPTION/MODEL TITLE "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-8-6-80 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D J. CASEY MCT 8-6-80 NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF B DD NUM8ER ENG. K. OKIN REV. 8-8-80 ITEMS WITHOUT WRITTEN PERMISSION. M8391-0 DIGITAL EQUIPMENT CORPORATION 8-8-80 SHEET 1 OF 2 C.J. CONSIDINE **DRB 126** 

0-1688M

B DD SISE CODE ) REV. NUMBER DRAWING NO. OF PART NO. DESCRIPTION **REVISIONS** D-FD-M8391-0-0 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-1 1 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-2 1 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-3 1 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-4 1 MEMORY FLOW DIAGRAM A B D-FD-M8391-0-5 1 MEMORY FLOW DIAGRAM 1 D-FD-M8391-0-6 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-7 MEMORY FLOW DIAGRAM AB 1 AB D-FD-M8391-0-8 MEMORY FLOW DIAGRAM D-FD-M8391-0-9 MEMORY FLOW DIAGRAM AB 1 AB D-FD-M8391-0-10 MEMORY FLOW DIAGRAM D-FD-M8391-0-11 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-12 1 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-13 1 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-14 MEMORY FLOW DIAGRAM AB 1 AB MEMORY FLOW DIAGRAM D-FD-M8391-0-15 D-FD-M8391-0-16 MEMORY FLOW DIAGRAM AB AB D-FD-M8391-0-17 MEMORY FLOW DIAGRAM AB MEMORY FLOW DIAGRAM D-FD-M8391-0-18 AB MEMORY FLOW DIAGRAM D-FD-M8391-C-19 AB D-FD-M8391-C-20 MEMORY FLOW DIAGRAM AB D-FD-M8391-0-21 MEMORY FLOW DIAGRAM **NOTES:** REV. ဘေပြ REVISIONS
CHG NO.
TWOO!
TWCO2 DATE 1-82 2-82 DRN. USED ON OPTION/MODEL TITLE THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-J. CASEY 8-6-80 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL MCT CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN J. CASEY 8-6-80 PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ENG. SIZE CODE NUMBER REV. ITEMS WITHOUT WRITTEN PERMISSION. K. OKIN B 8-8-80 C M8391-0 COPYRIGHT® DIGITAL EQUIPMENT CORPORATION PROD. C. CONSIDINE 8-8-80 SHEET 2 OF 2 DRB 126

0-1688M





2				
AUTOMATED BY PRTLST.3M(41		PARIS LIST	QTY PER VARIATION	SHEET A1 OF A3
LINE ITEM DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	90 REFERENCE	DESIGNATOR
1 80 D-MD-5013893-0-	1000064-00 1012084-01 1012784-00		S.TANT 1 C3 AL EL 5 C4-C8.C80 CER 41 C10-C12.C CONT C41.C43.C	14-021,623-035,038,040, 45-049,051-056,058
756889	1013466-11 1105796-00 1112689-00 1215006-02 1215006-04	.22 MFD 50V +80-20% Z 1N 4004 PIV=400 I= 1A DO4 LED .8MCDD16MA VF=5V SKT,IC 16PIN DIP TIN PI SKT,IC 20PIN DIP TIN PI	5U CER 2 C1, C2 1 SP 1 D1 9 D2-D10 -ATE 1 XES1 -ATE 28 XE3-XE7, XI CONT XE42, XE44	E13-XE15, XE25, XE28, ,XE46, XE47, XE50, XE55, ,XE61, XE67, XE68, XE70, ,XE63, XE84, XE91, XE106 ,XE73, XE85, XE86, XE98, 1,XE112
10 10	1215006-05	SKT, IC 22PIN DIP TIN PL	CONT XE42, XE44 CONT XE57, XE60 CONT XE72, XE77 XE62, XE63 CONT XE99, XE11	,XE61,XE67,XE68,XE70, ,XE83,XE84,XE91,XE106 ,XE73,XE85,XE86,XE98, 1,XE112
11 11 12 SEE NOTE 1 12 SEE NOTE 1 12 SEE NOTE 2 12 SEE NOT	1215924-00 1215935-00 1215936-00 1216988-02 1300229-00 1302377-00 1302514-00 1311003-02 1312628-00 1616322-00 1910534-00 1910548-00 1910549-00	SKT.IC 48PIN DIP GOLD F GASKET, THERMAL .50"X.80" HEAT SINK, FORCED CONVECTION HANDLE, MODULE, HEX TWO EJECT 100.0 .25 W 5.0 % 39.0 .25 W 5.0 % 39.0 K .25 W 5.0 % R NETWORK 14-330 14-680 R NETWORK 14-176.5 14-375 DELAY= 75NS.5TAPS 74S00 NAND GATE-QUAD 74S04 INVERTER GATE-H 74S157 MUX 1 OF 2 (Q	N 2 ORS 1 CC 3 R18,R20,R3 CC 8 R10-R17 CC 1 R19 16PIN 1 E65 16PIN 4 E55,E78.E8	21
+++++++++++++++++++++++++++++++++++++++	1910534-00 1910548-00 1910549-00 1910550-00	74500 NAND GATE-QUAD 74504 INVERTER GATE-H 745157 MUX 1 OF 2 (Q 745158 MUX 1 OF 2 (Q 745174 FF-D HEX	I E2 2IN 1 E93 EX 1I 2 E79,E102 UAD) 1 E69 UAD) 1 E97 I E105	
ENG! ECO NUMBER REV	BASIC PART NO: M8391 SECTION A OF A	DRN: J.FERGUSON	DATE: 14-MAR-80 D I	G I T A L ARTS LIST
INITIAL A KO M8391-TWOO1 B	SECTION.VARIATION INDE	CHK'D: E.T.GERRY  DES.ENG: K.OKIN	DATE: 14-MAR-80 	
	[Ē] [F] [H] [J]		PAIE: 22-APR-80 ++++++++++++++++++++++++++++++++++++	SER REV
	[K] [L] [M] [N]	MFG.ENG.: J.CONSIDINE ASSEMBLY NUMBER: D-UA-M8391-O-O	TOP DOCUMENT NUMBER: FILE 212	NAME: EDIT # 17
"THIS DRAWING AND SPE OR COPIED OR USED IN	CCIFICATIONS HEREIN, AF WHOLE OR IN PART AS T COPYRIGH	RE THE PROPERTY OF DIGITAL E THE BASIS FOR THE MANUFACTUR HT (C) 1982. DIGITAL EQUIPME	QUIPMENT CORPORATION AND SHALL NOT E OR SALE OF ITEMS WITHOUT WRITTEN NT CORPORATION	BE REPRODUCED N PERMISSION.
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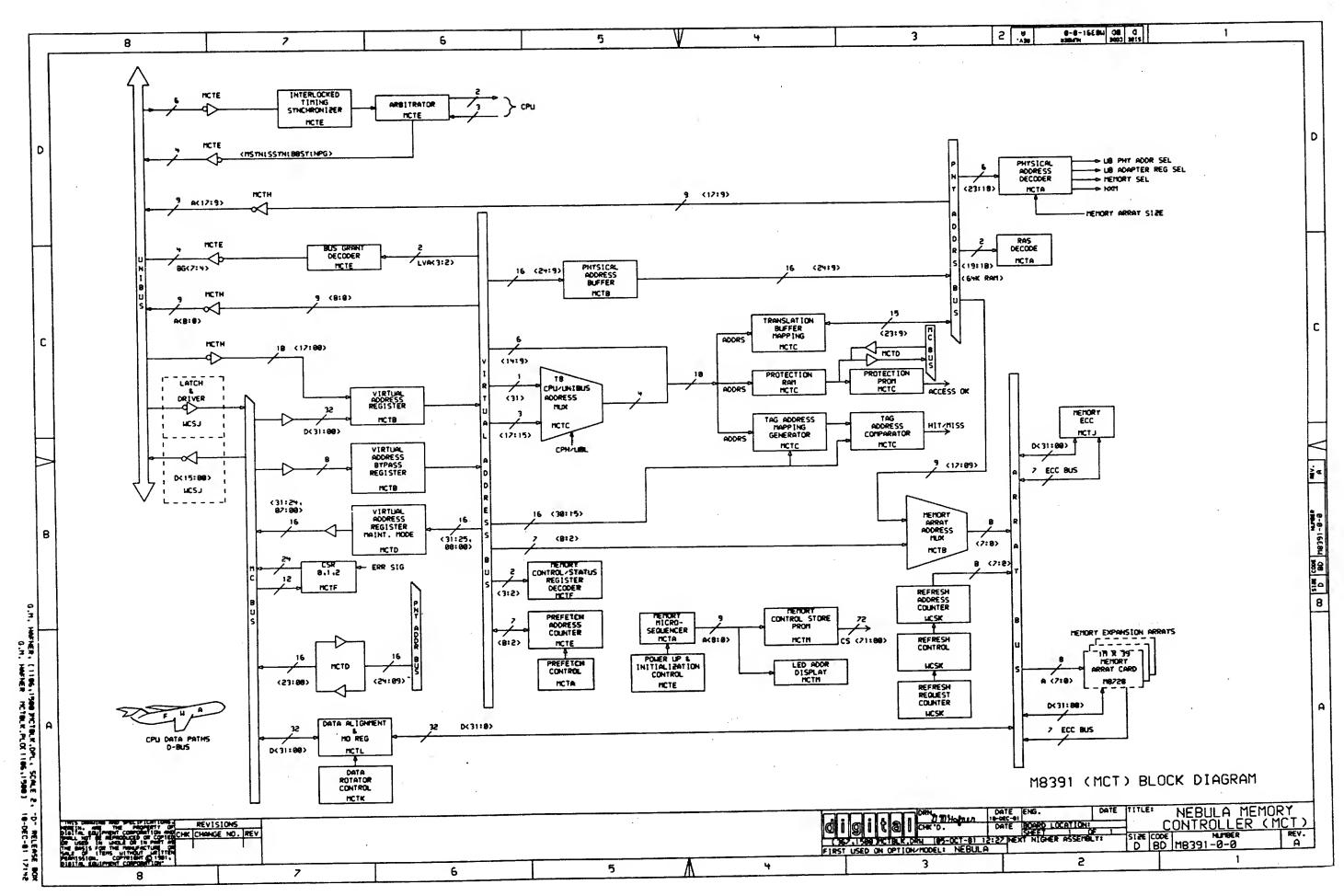
## 121095-00 Dec 74837 PRITY EFF UNIS HEX UN	AUTOMATED BY PRTLST.3M(41) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARIS LIST DESCRIPTION	QTY PER VAR	REFERENCE DESIGNATUR
initionitionili MCT : : : : : : : : : : : : : : : : : : :	62 75 63 56 64 76 65 57 66 77 67 58 68 78 69 59 70 60 71 61 72 62 73 63	1911671-000 1911671-000 1911671-000 1911671-000 1911671-000 191171	THE CONT   PAL, REG, CONT   PAL, LOGIC, CONT   P	# #	E107 E107 E107 E109 E109 E109 E109 E119
っす。(まっ)(ま))(ま))(ま))(ま))」といったことには、「は、「は、「は、「は、「は、「は、「は、「は、「は、「は、」」(は、「は、」」(は、「は、」」(は、「は、」」(は、「は、」」(は、「は、」」(は、「は、」」(は、「は、」」(は、」)(は、」)(は、」)(は、」)(は、」)(は、」)(は、」)(		LE MCT	SECTION A	OF A	

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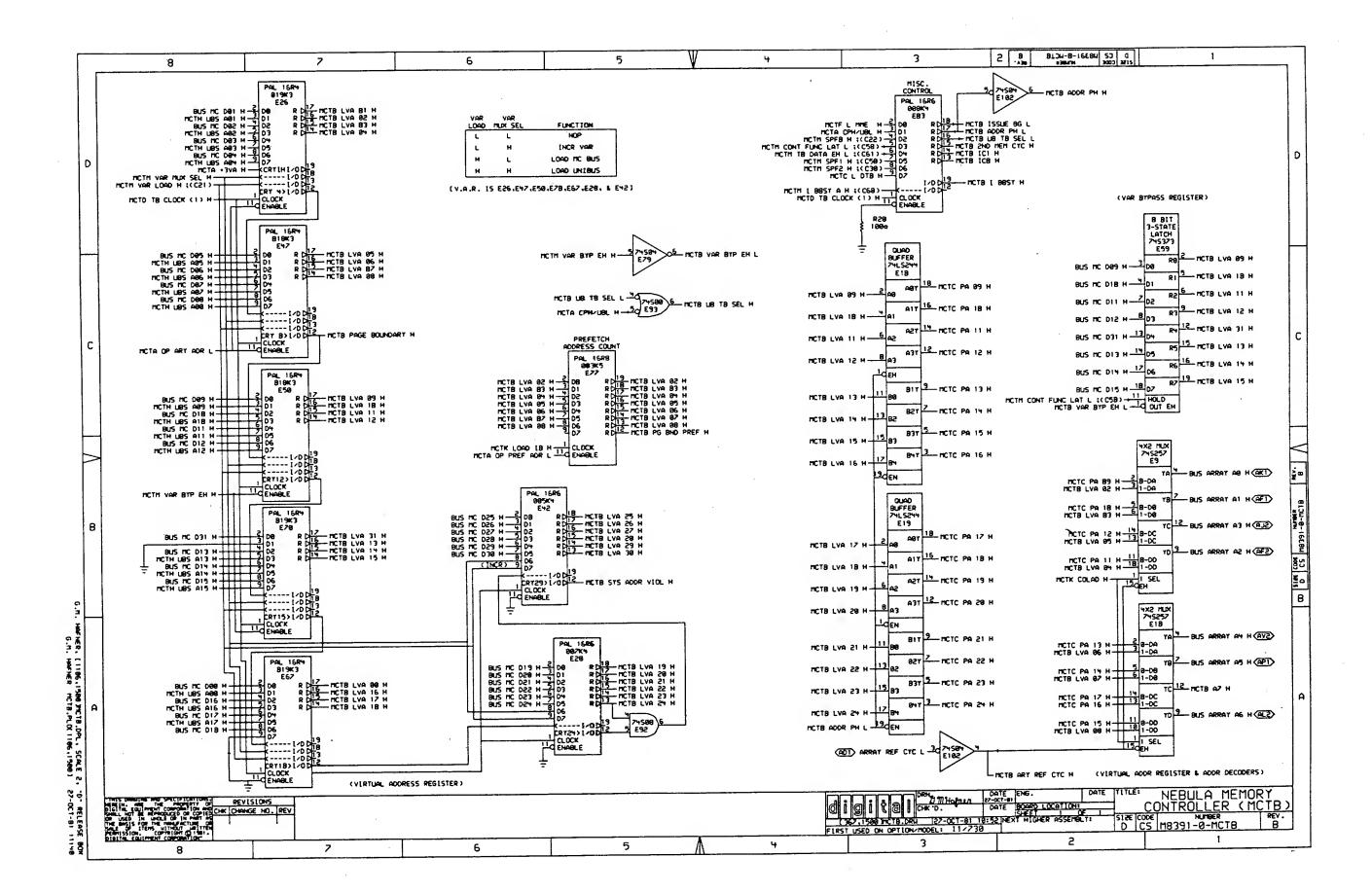
AUTOMATED BY PRTLST.3M(41) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARIS LIST DESCRIPTION	QTY PER VARIATIO	SHEET A3 OF A3 REFERENCE DESIGNATOR
74 64 75 65 76 66 77 68 79 81	23043J5-00 23044J5-00 9009000-00 9009149-00 9009185-00 9105740-55	JS-01 PAL,LOGIC,CONT JS-01 PAL,LOGIC,CONT PAL,LOGIC,CONT EYELET,ROLL FLANGE .1210DX .156 PIN, STAKING, P.C. BOARD, .025 X JUMPER, WIRE, INSULATED, BLACK B WIRE(WRAP)30AWG UL1423	1 12 37 A/R	E55 E84 TP1-TP3 W3,W6,W9,W10

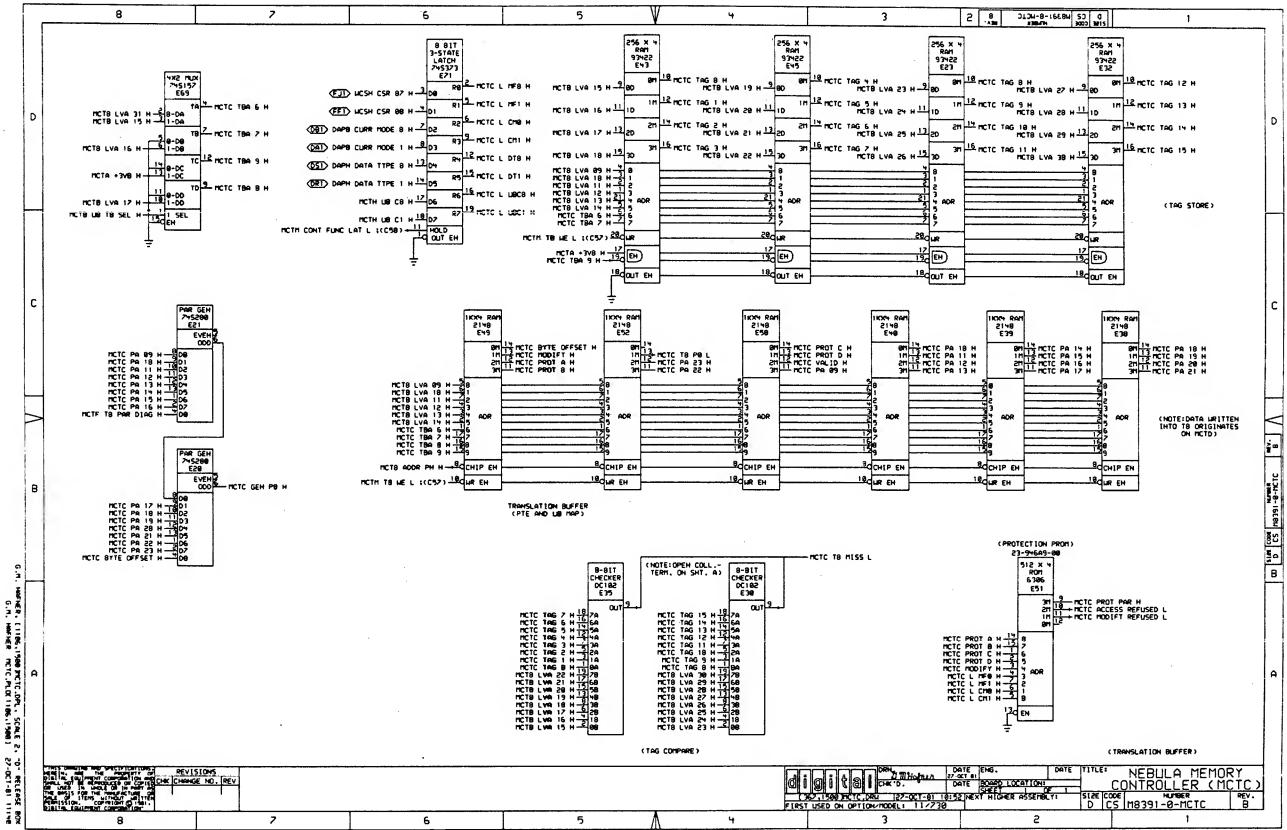
۵	.I	G	I	T	A	L	TITLE MC	Τ						SECTION			
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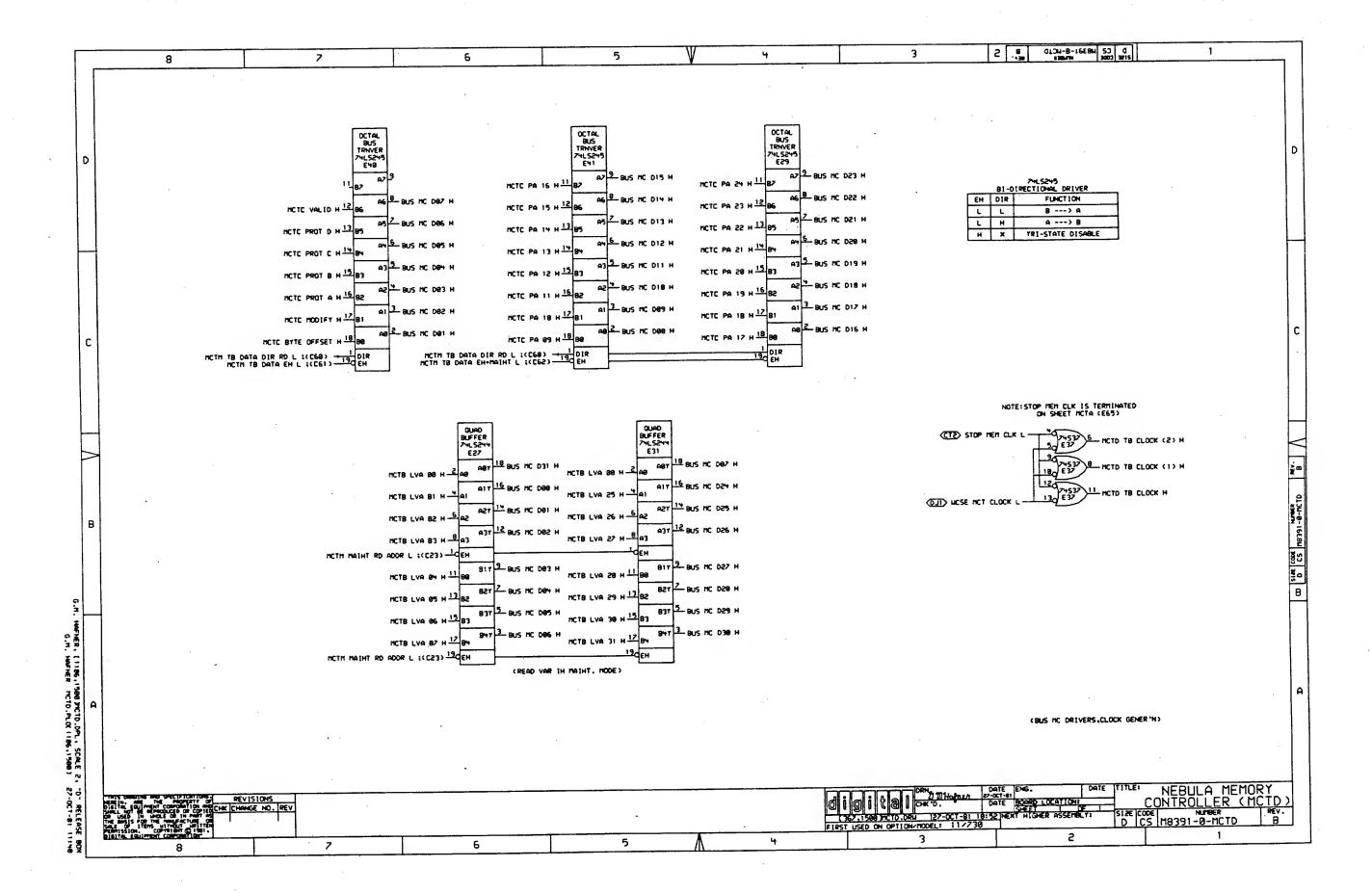
1	SIZE	CODE	DOCUMENT	NUMBER	REV
i	K ++++	PL ++++	1-0-1988M	OBP	В

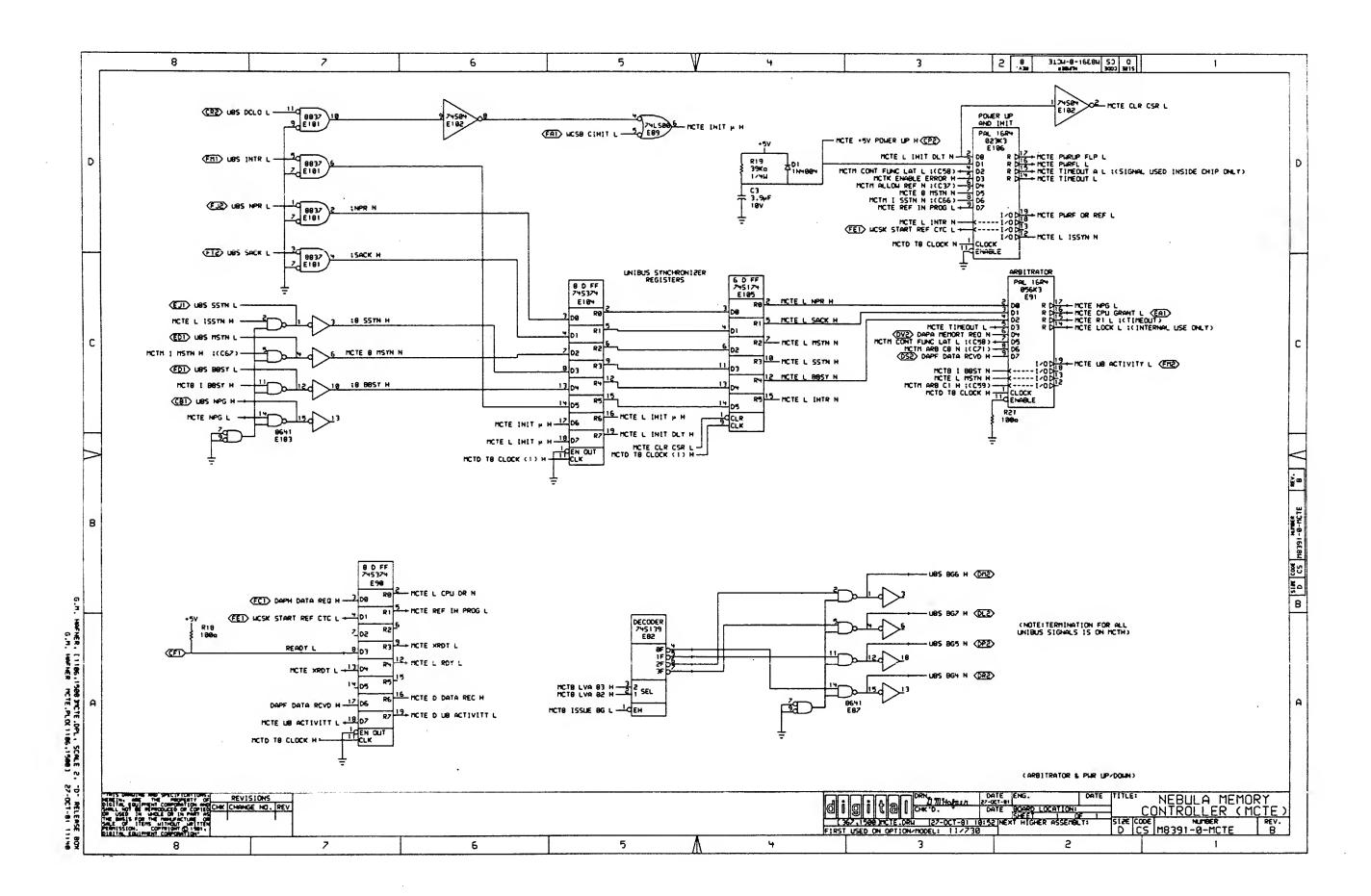


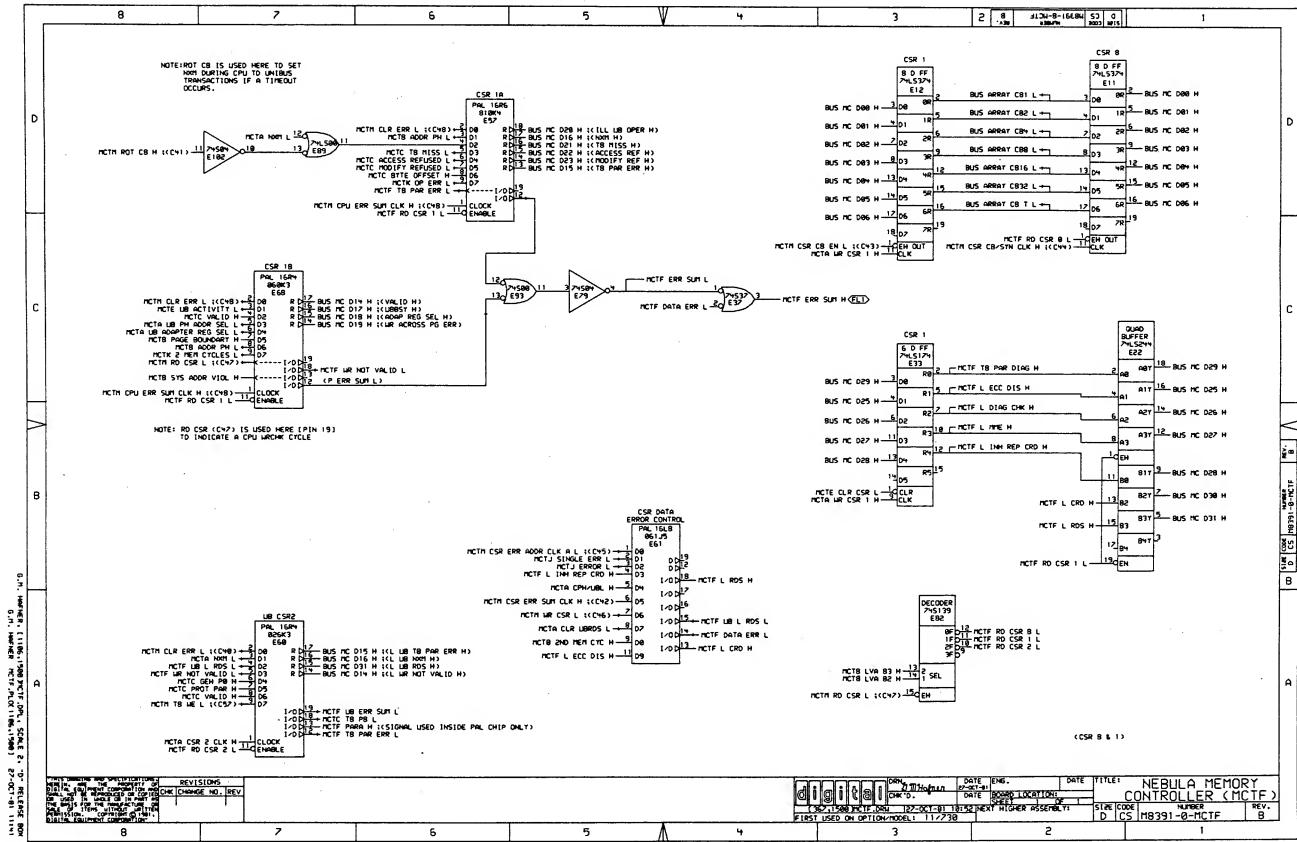
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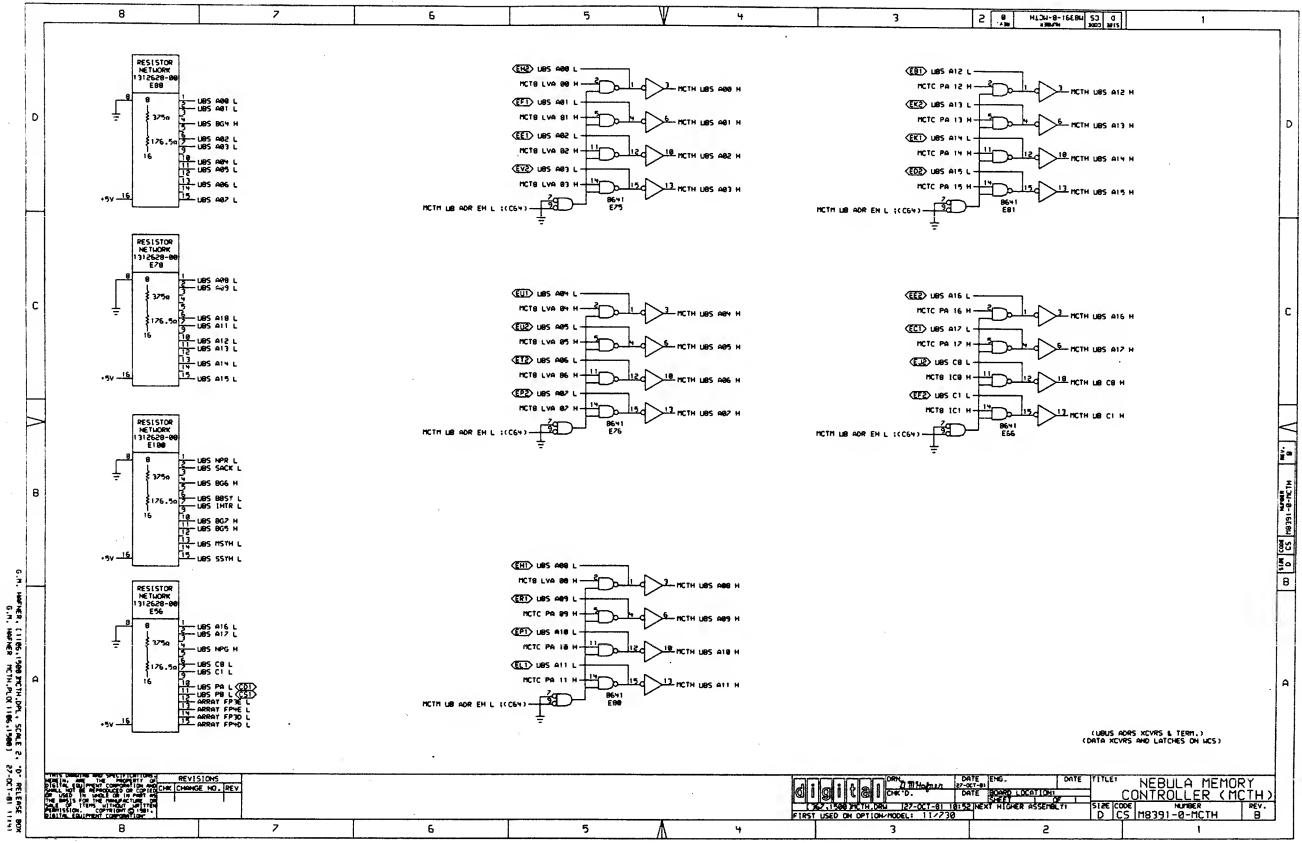




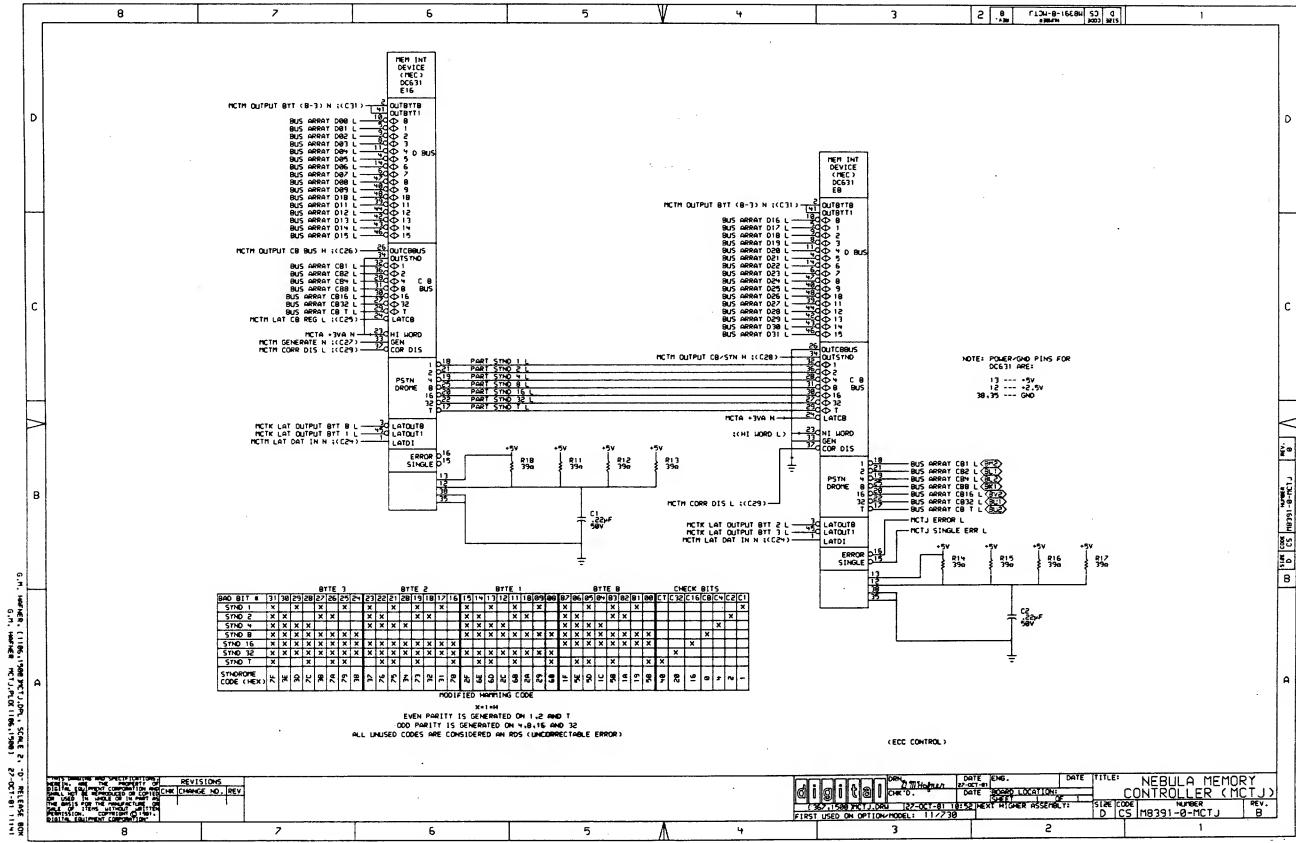


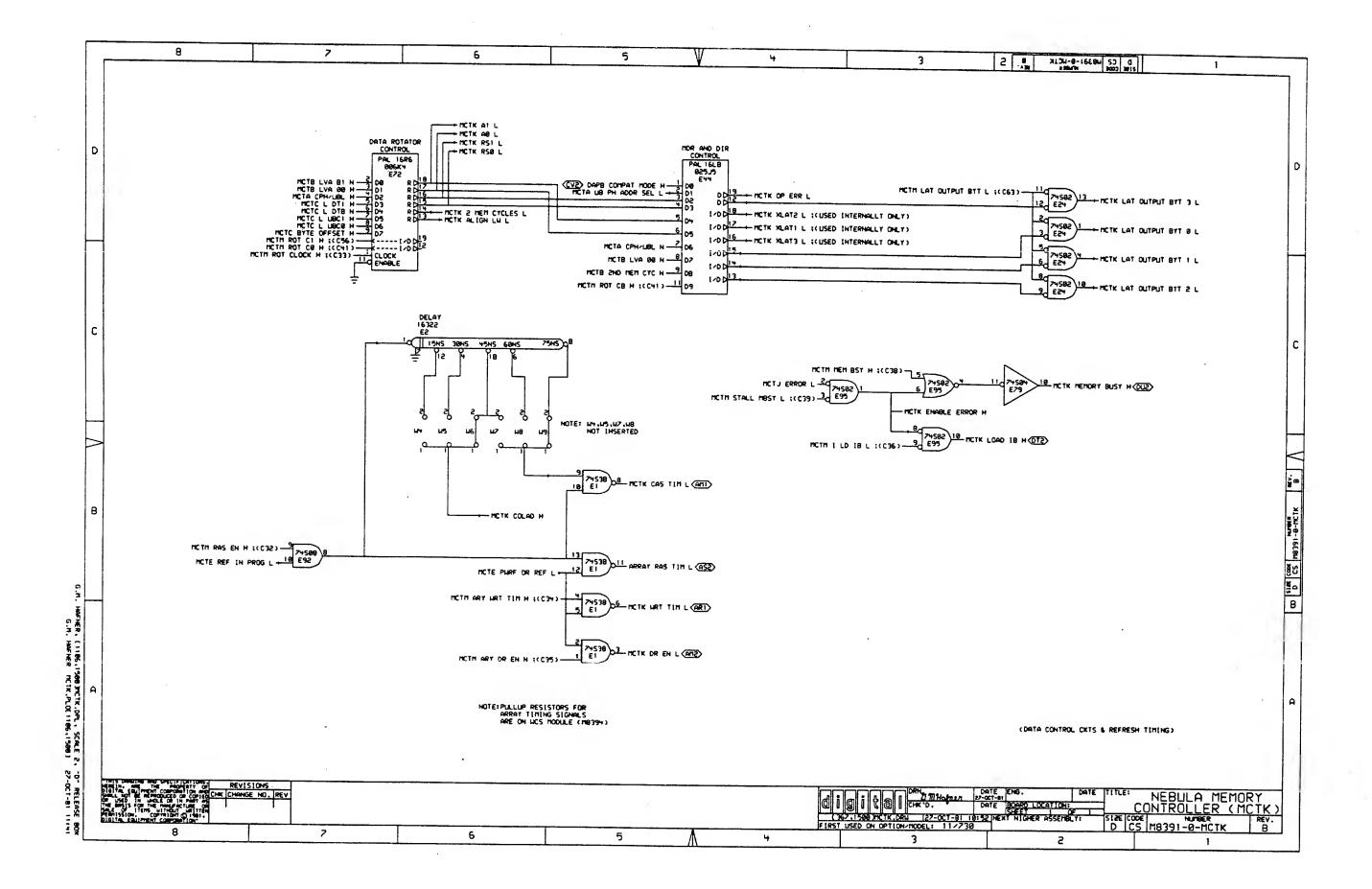


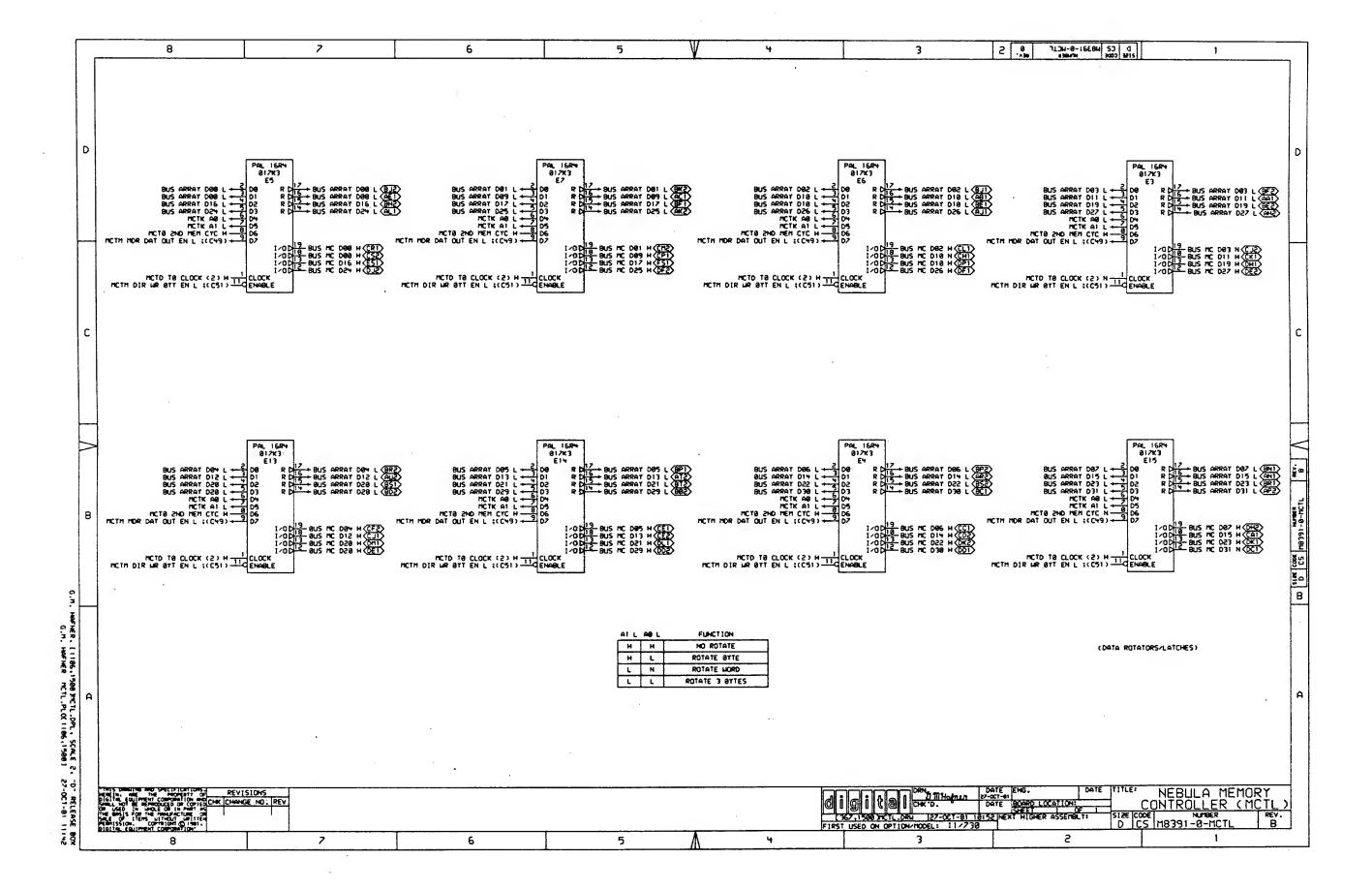


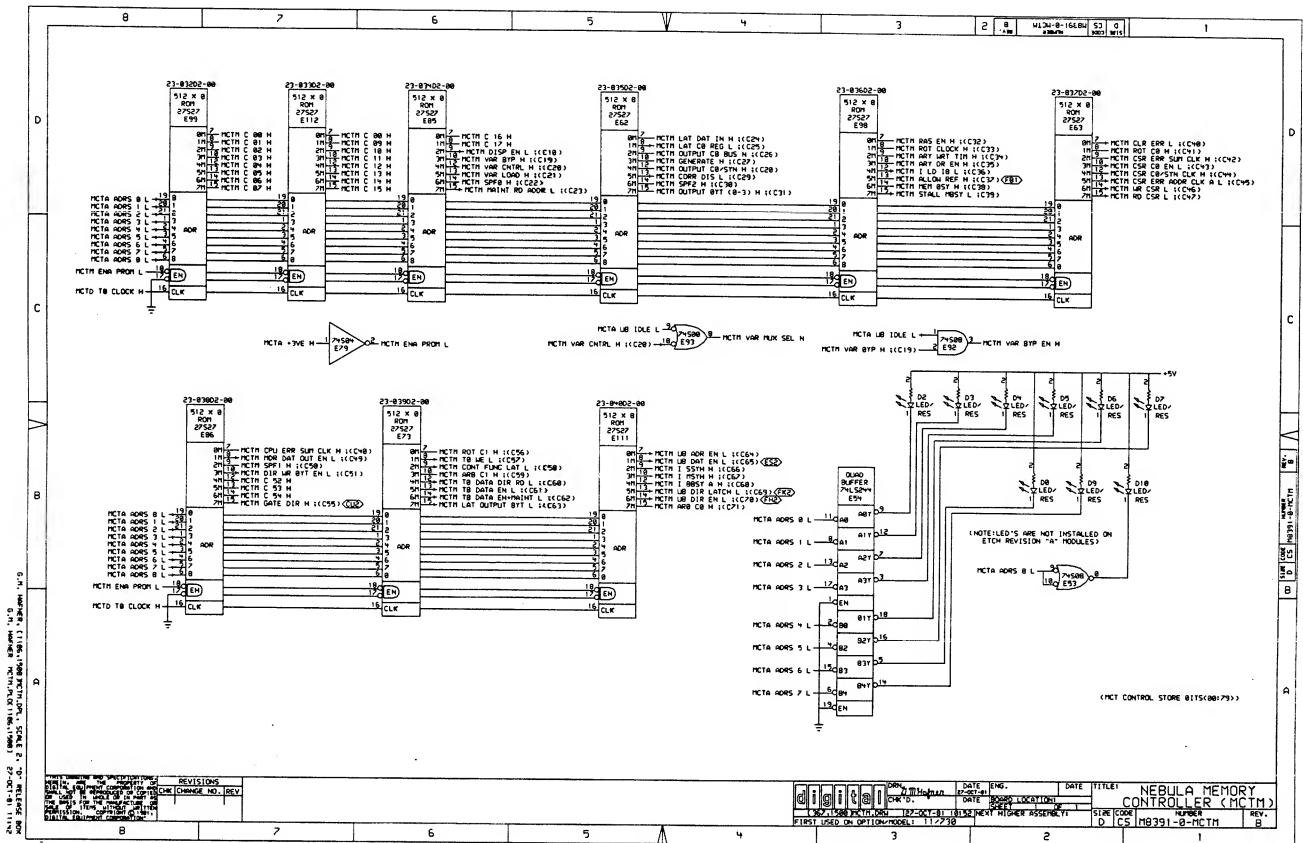


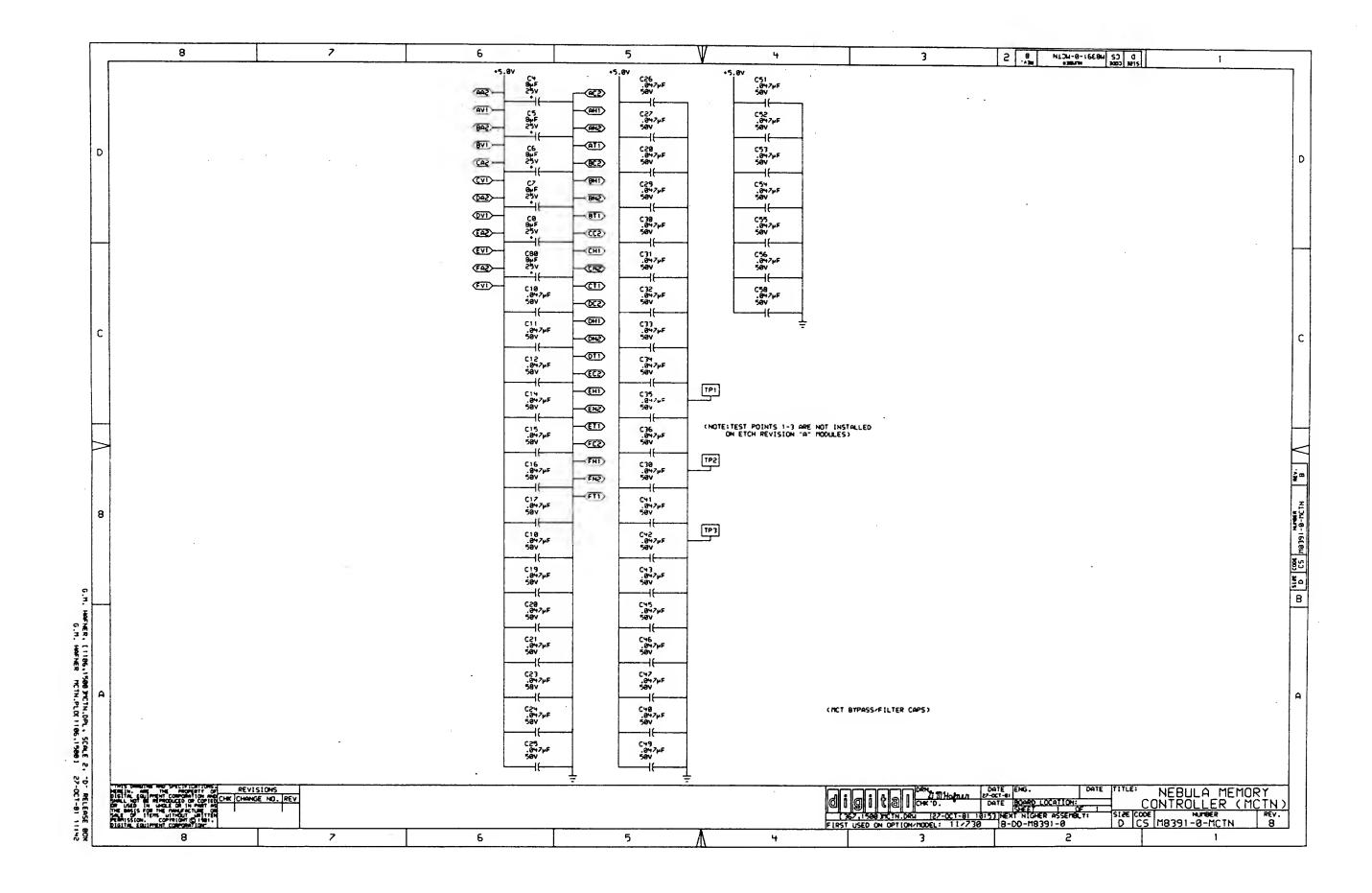
HOFNER, [1186,1588 INCTH.DPL, SCALE 2, G.M. HOFNER MCTH.PLO(1186,1588)

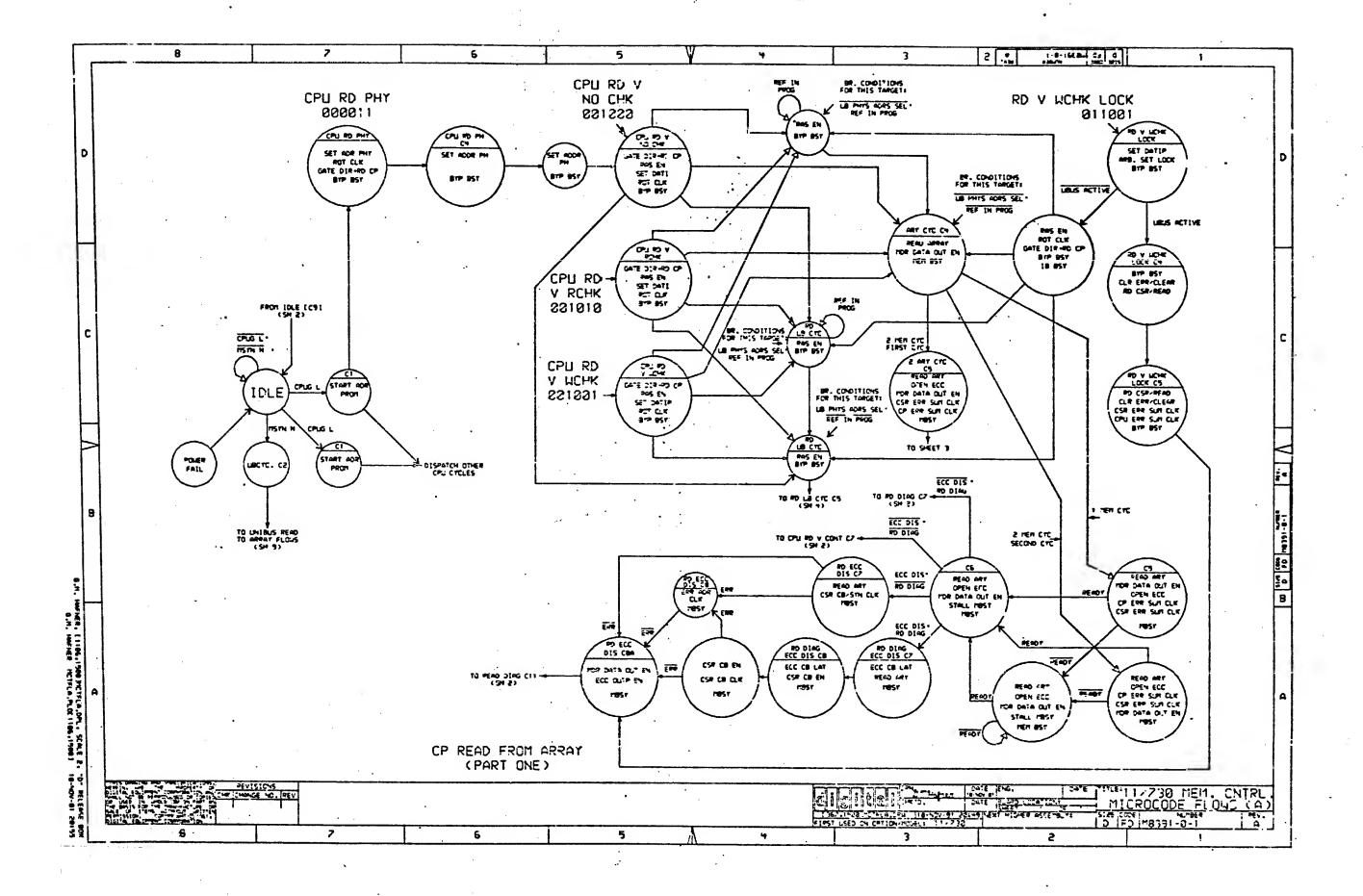


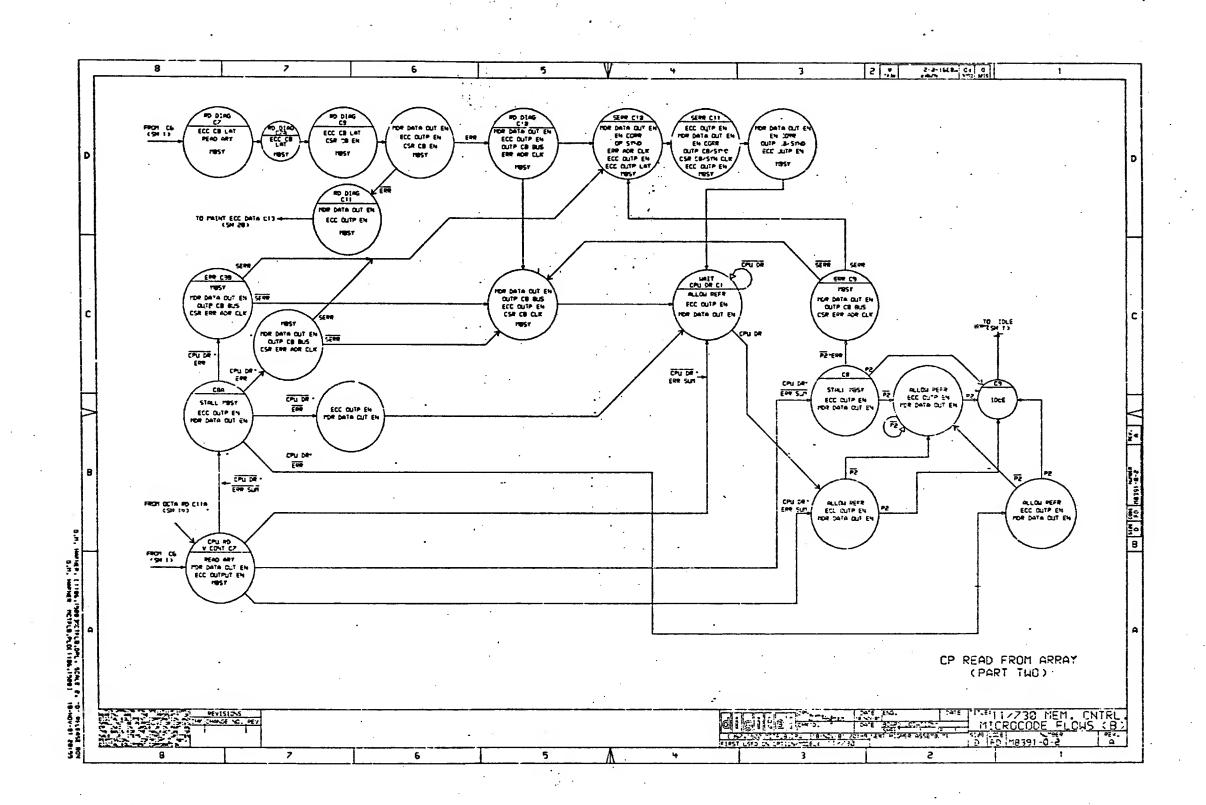


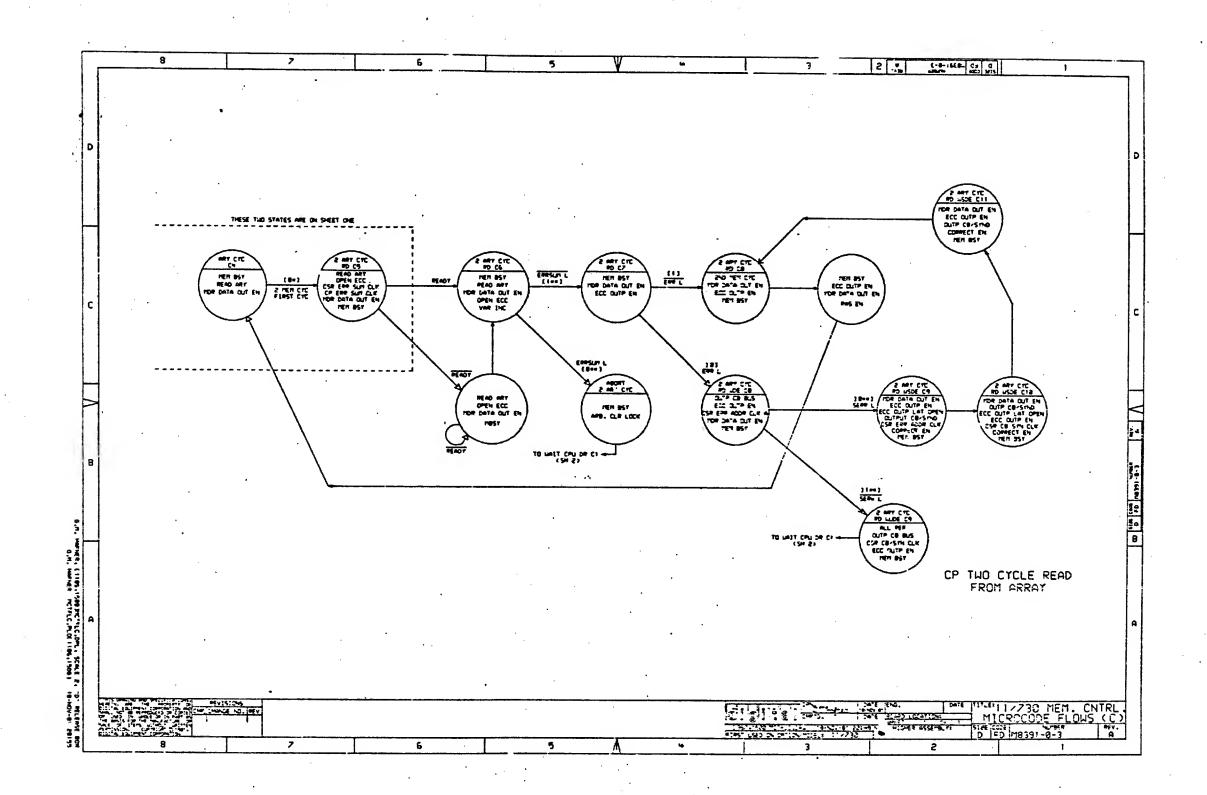


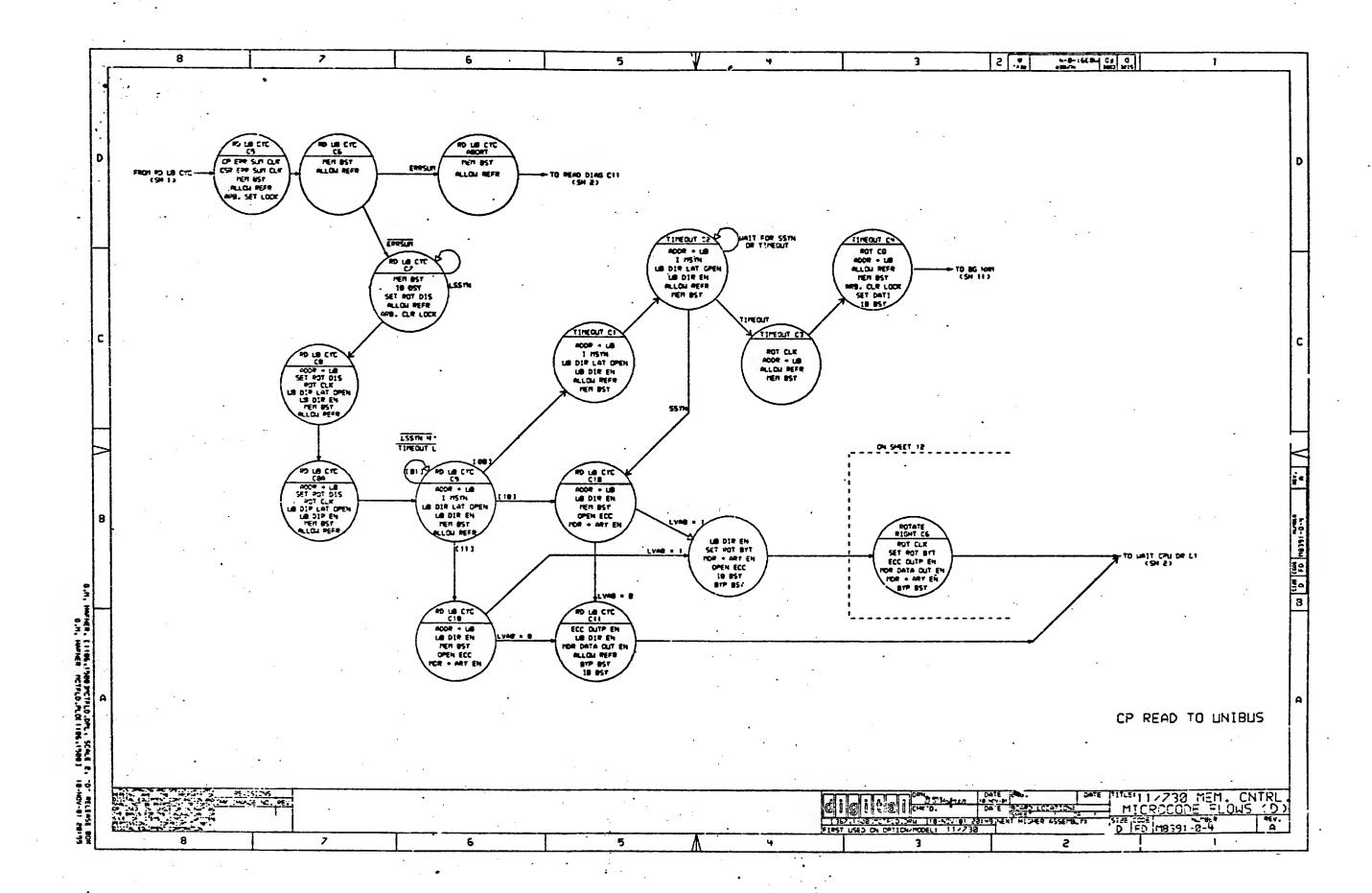


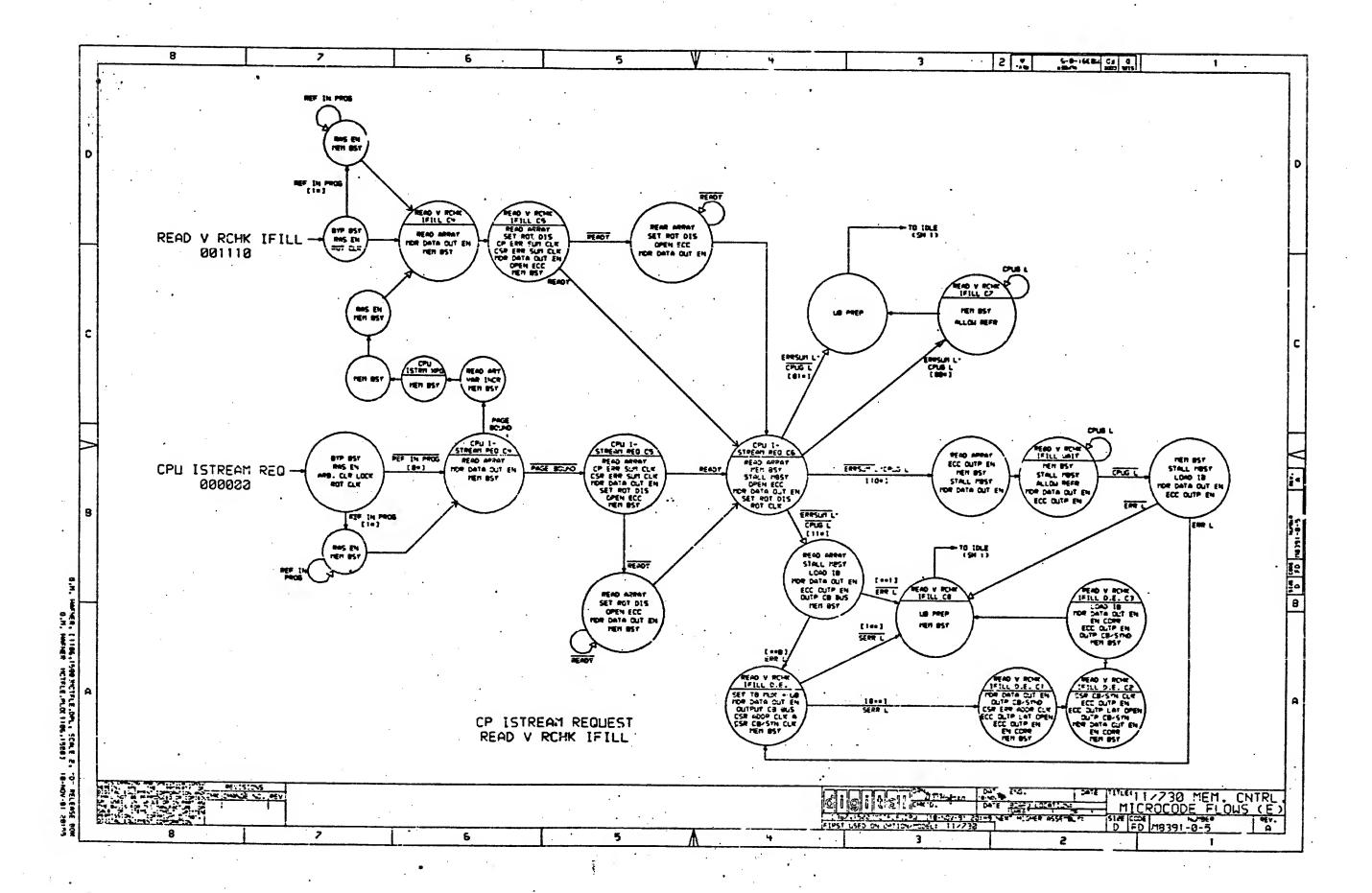


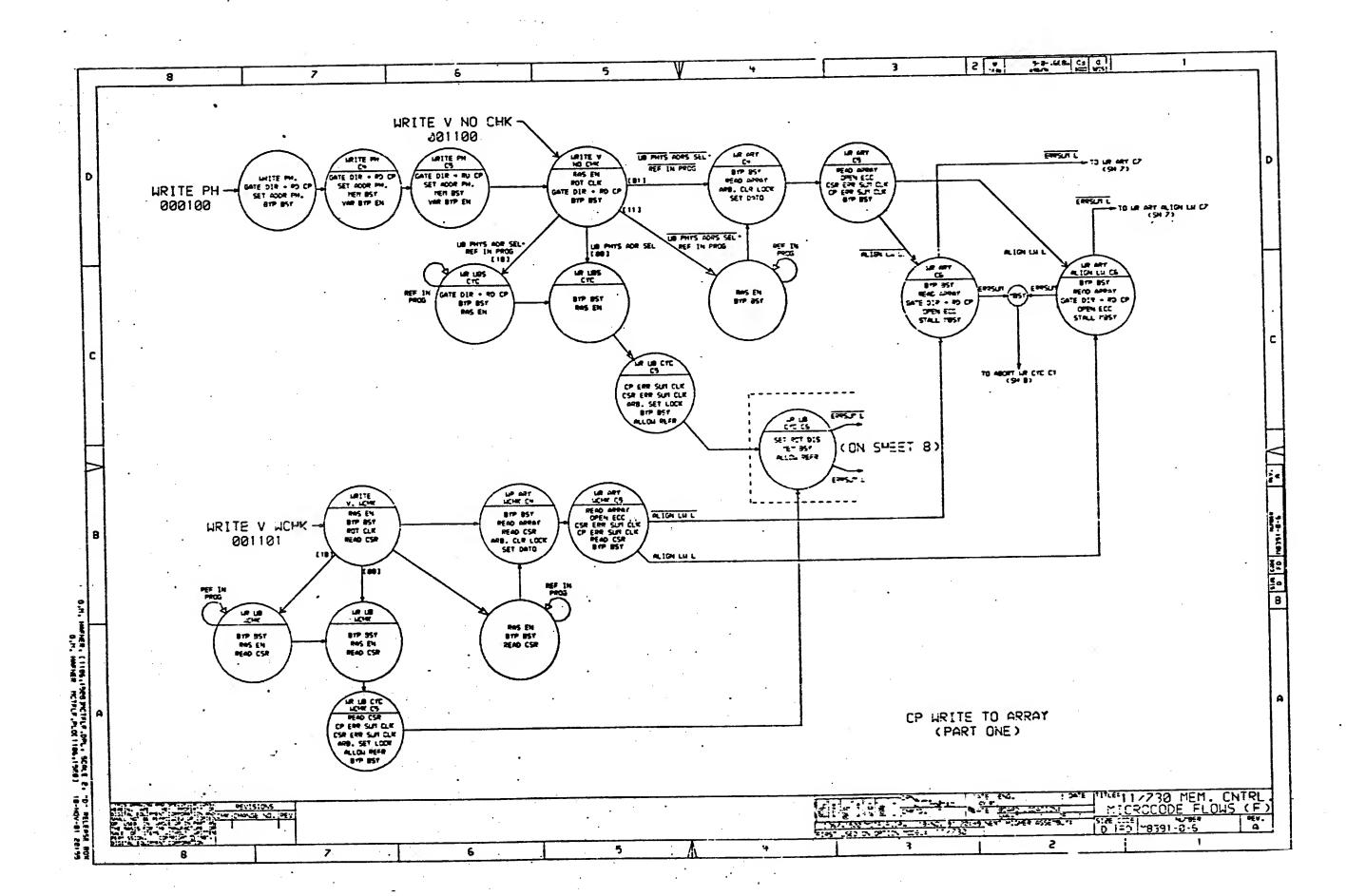


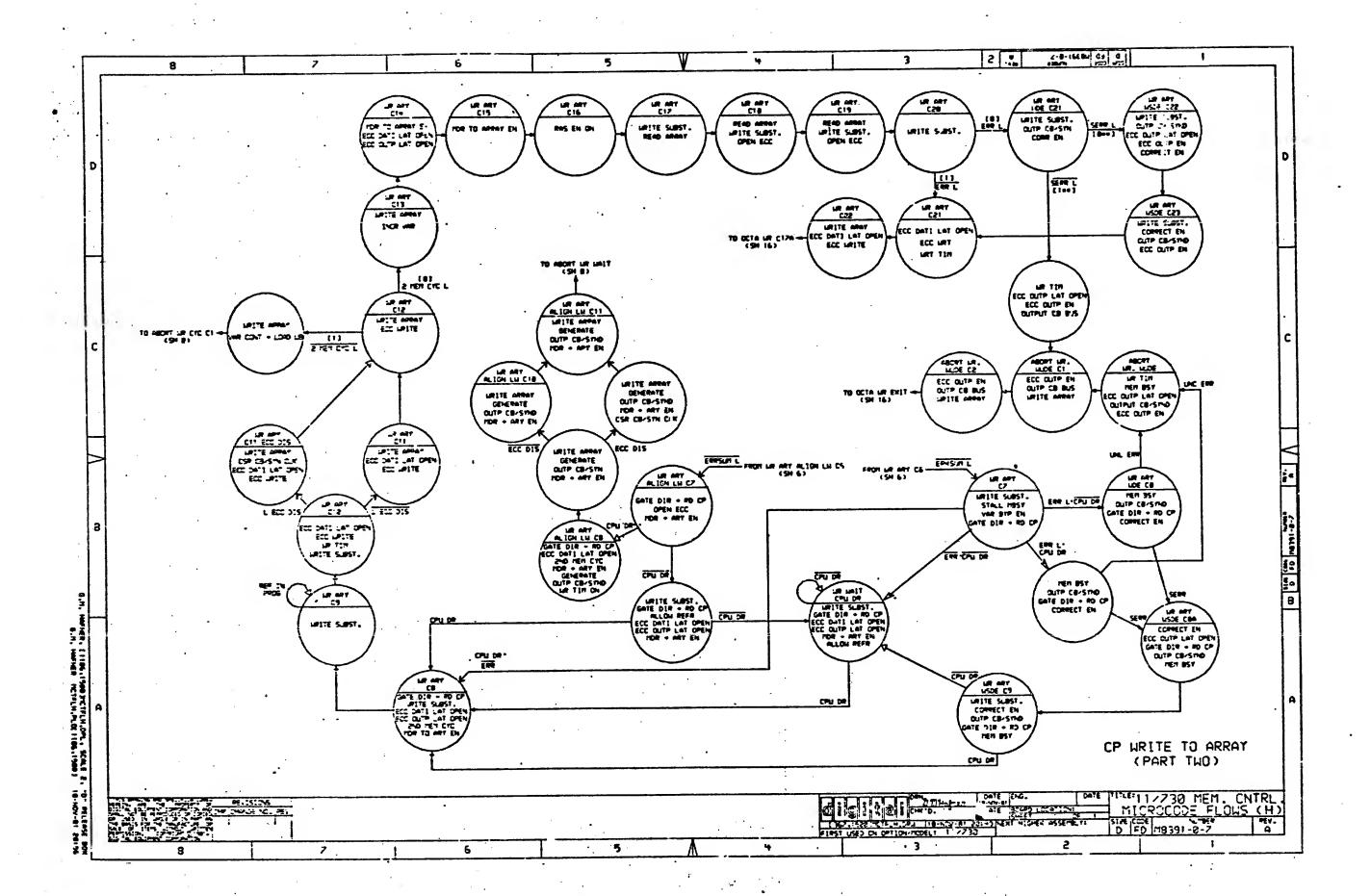


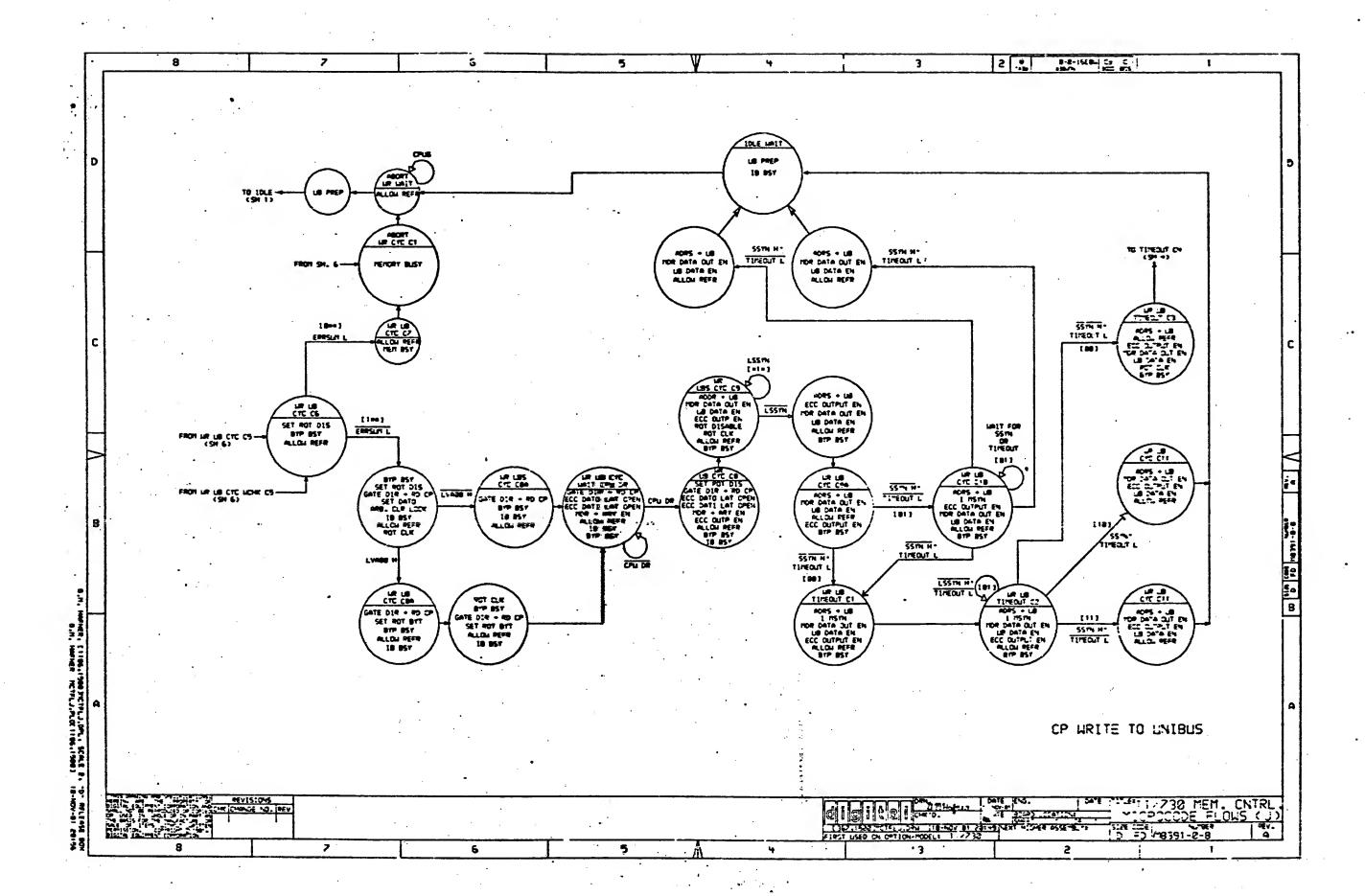


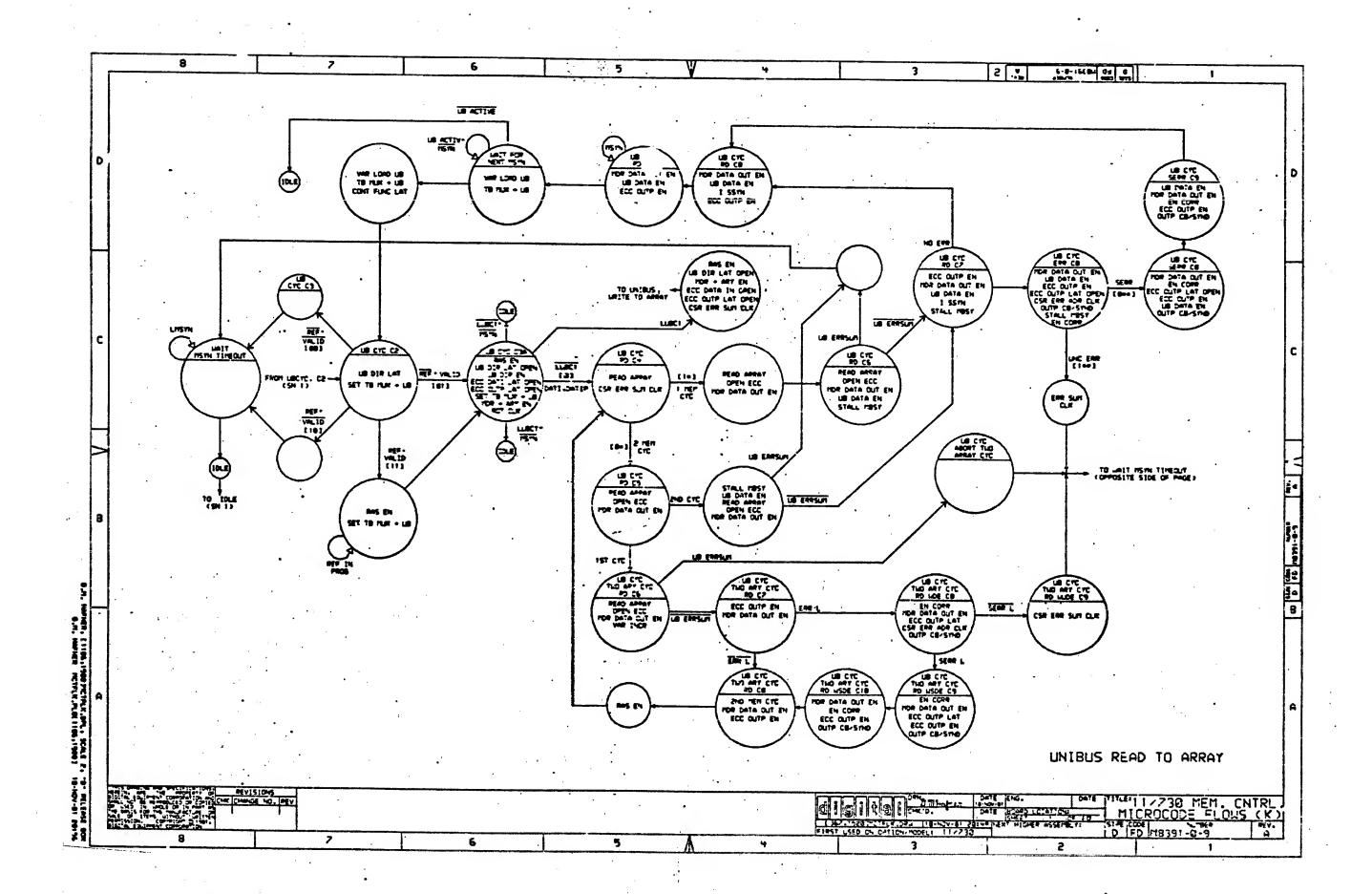


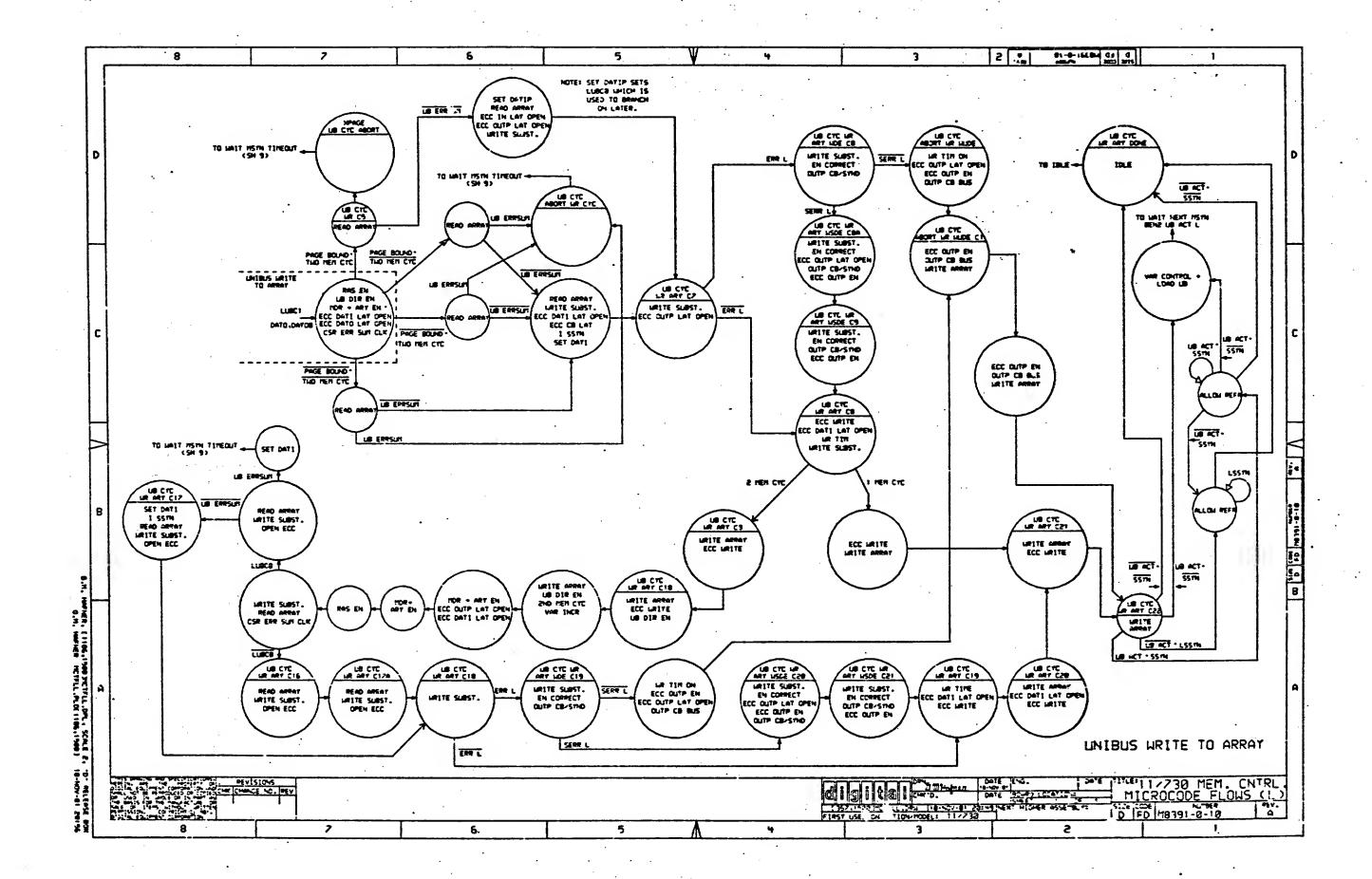


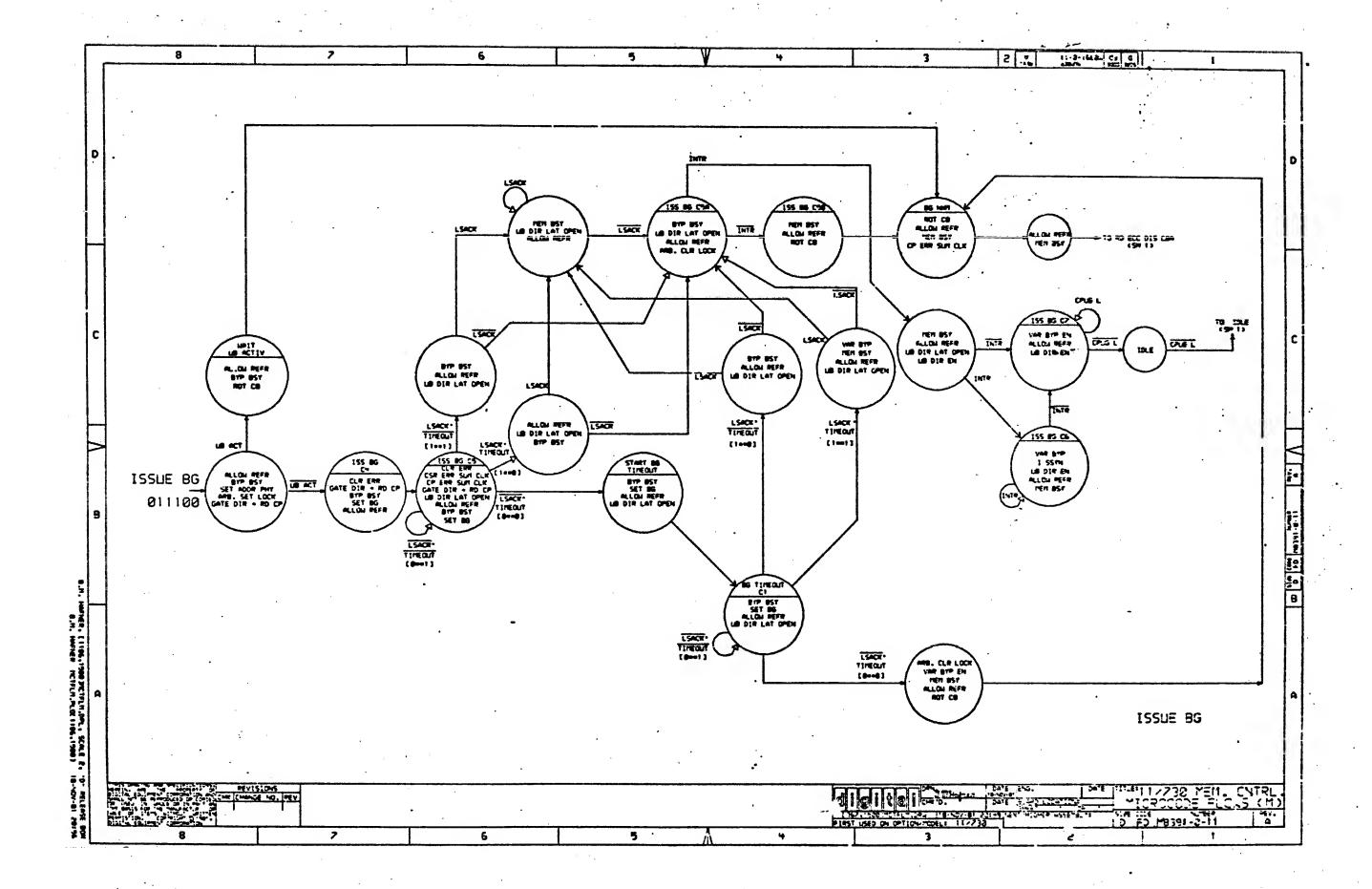


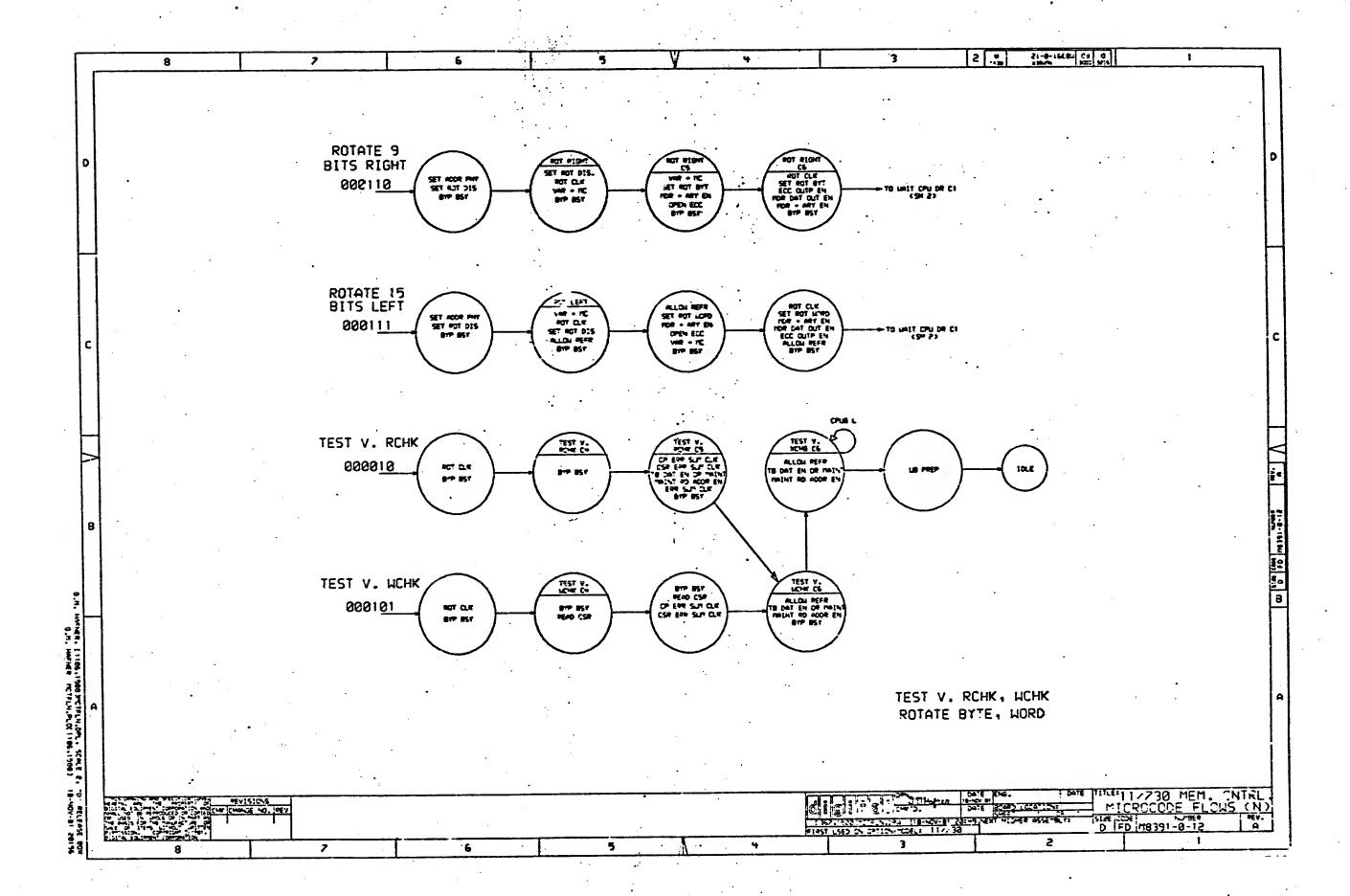


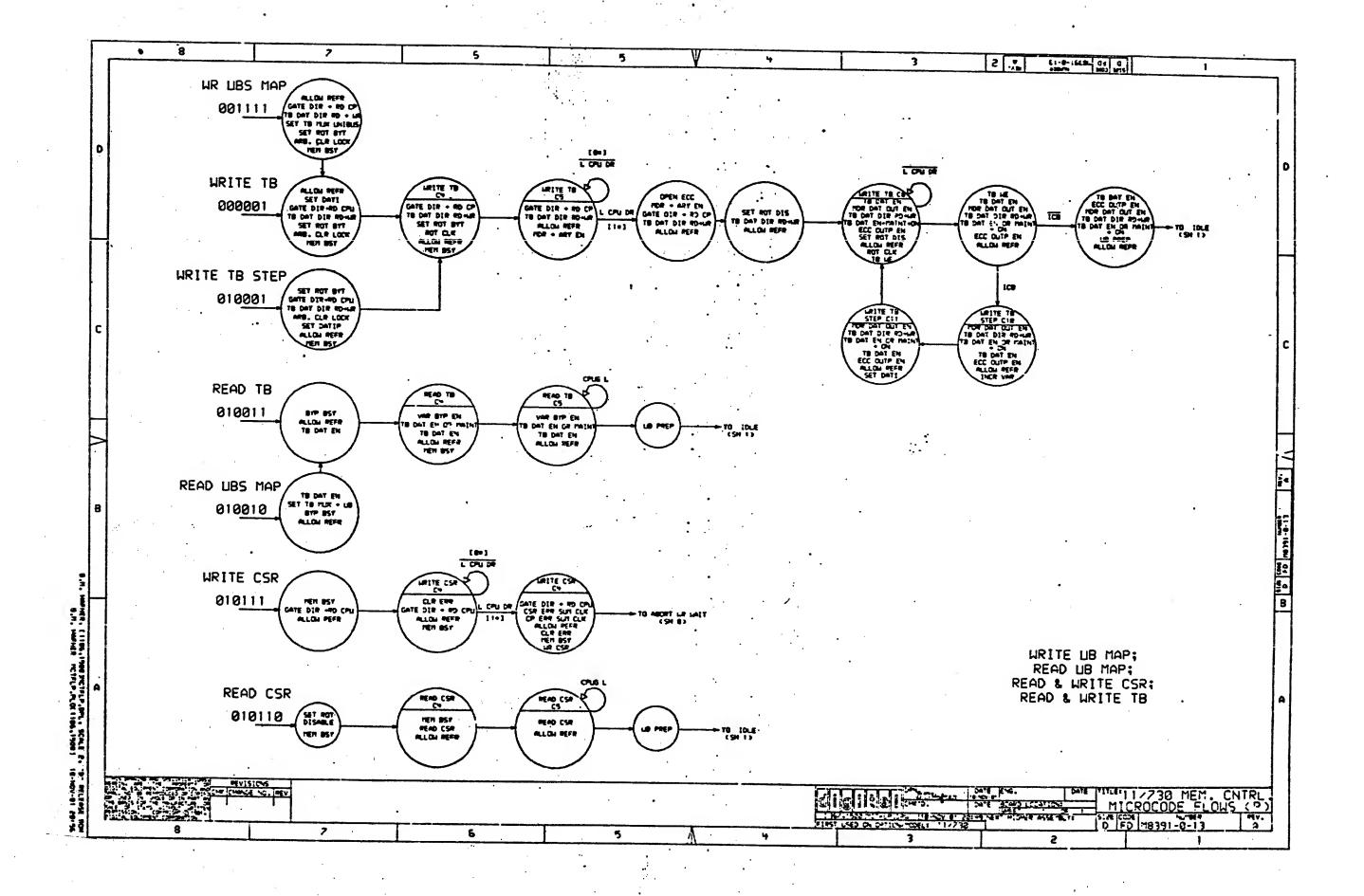


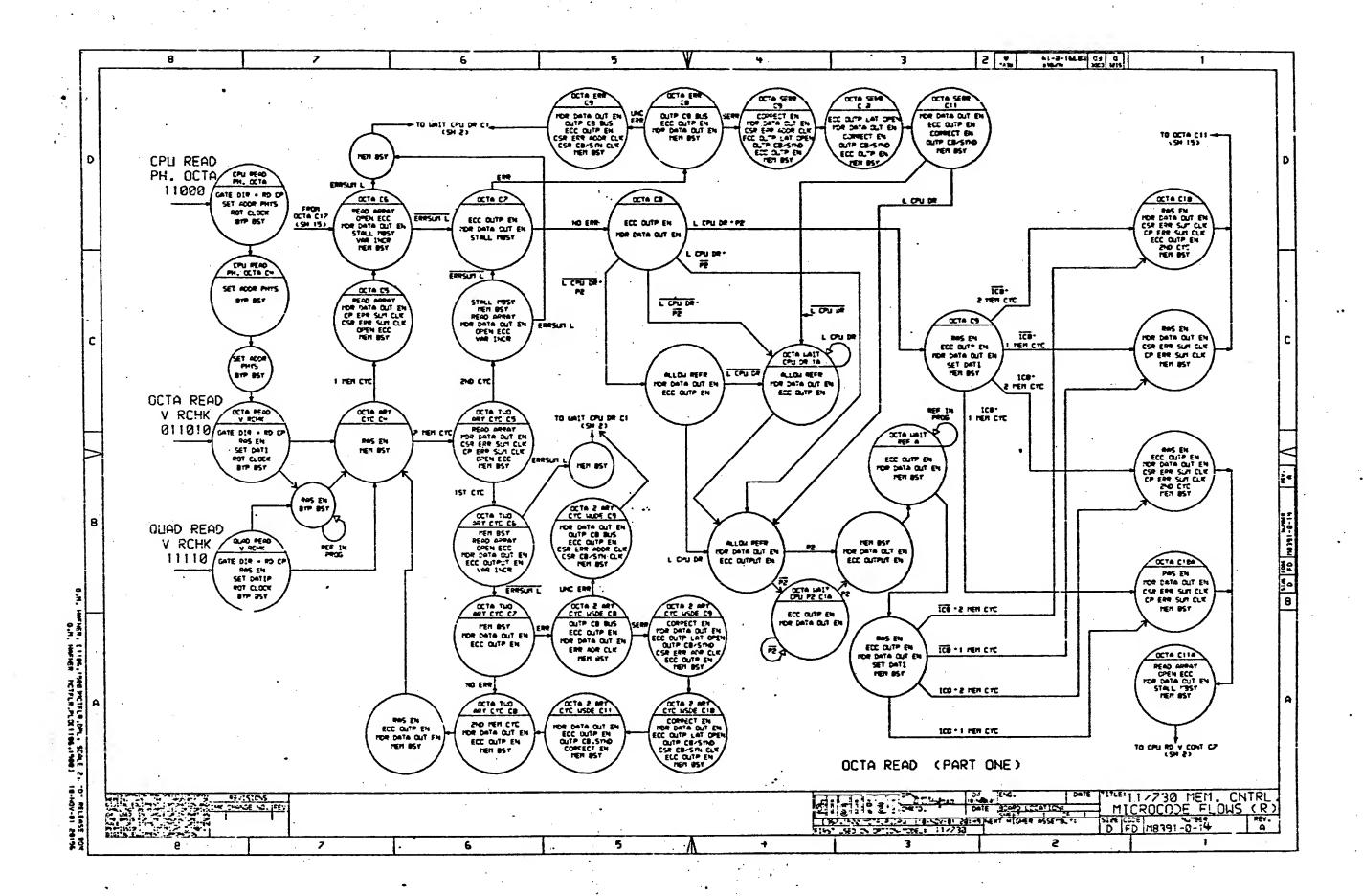


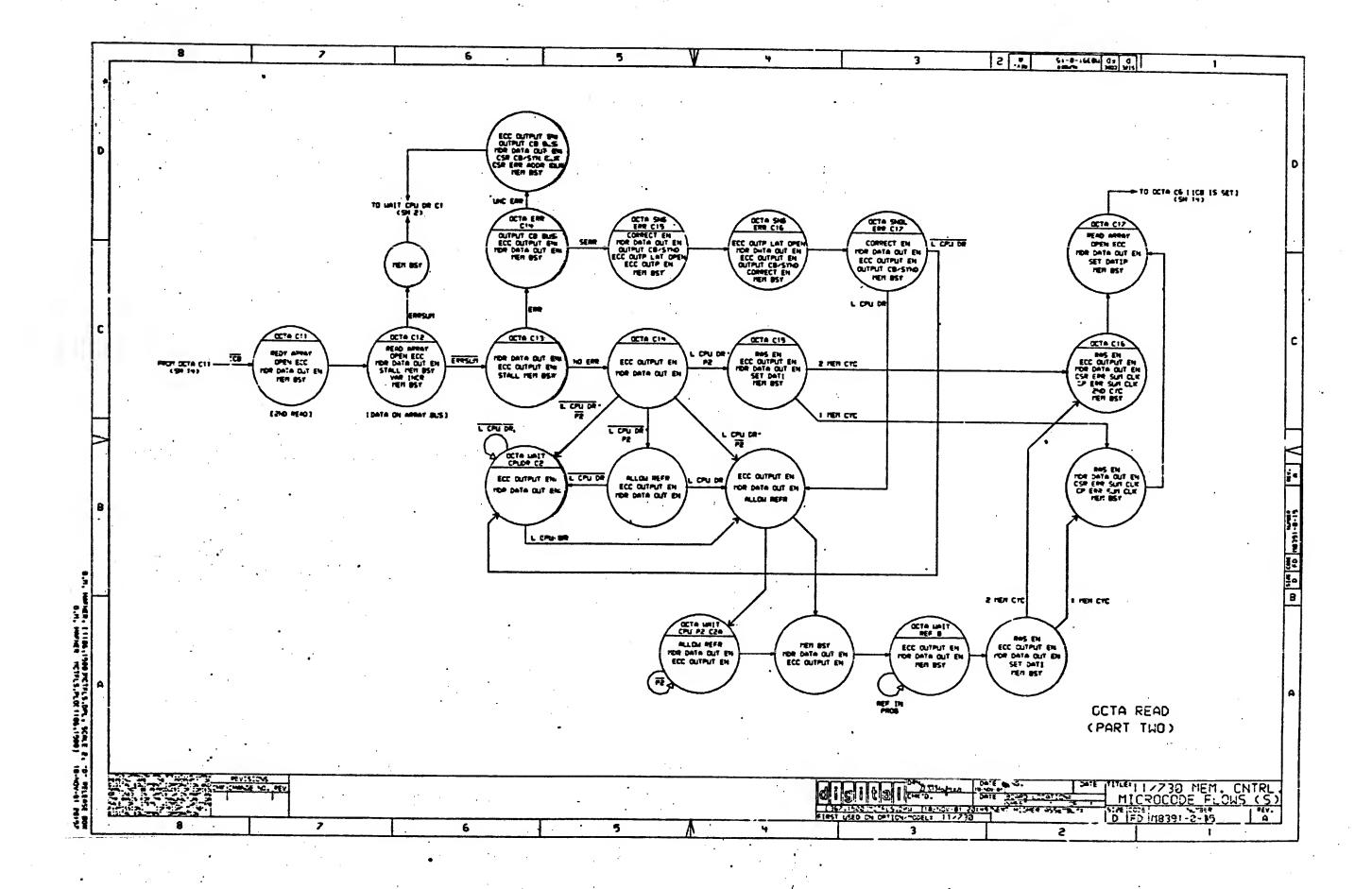


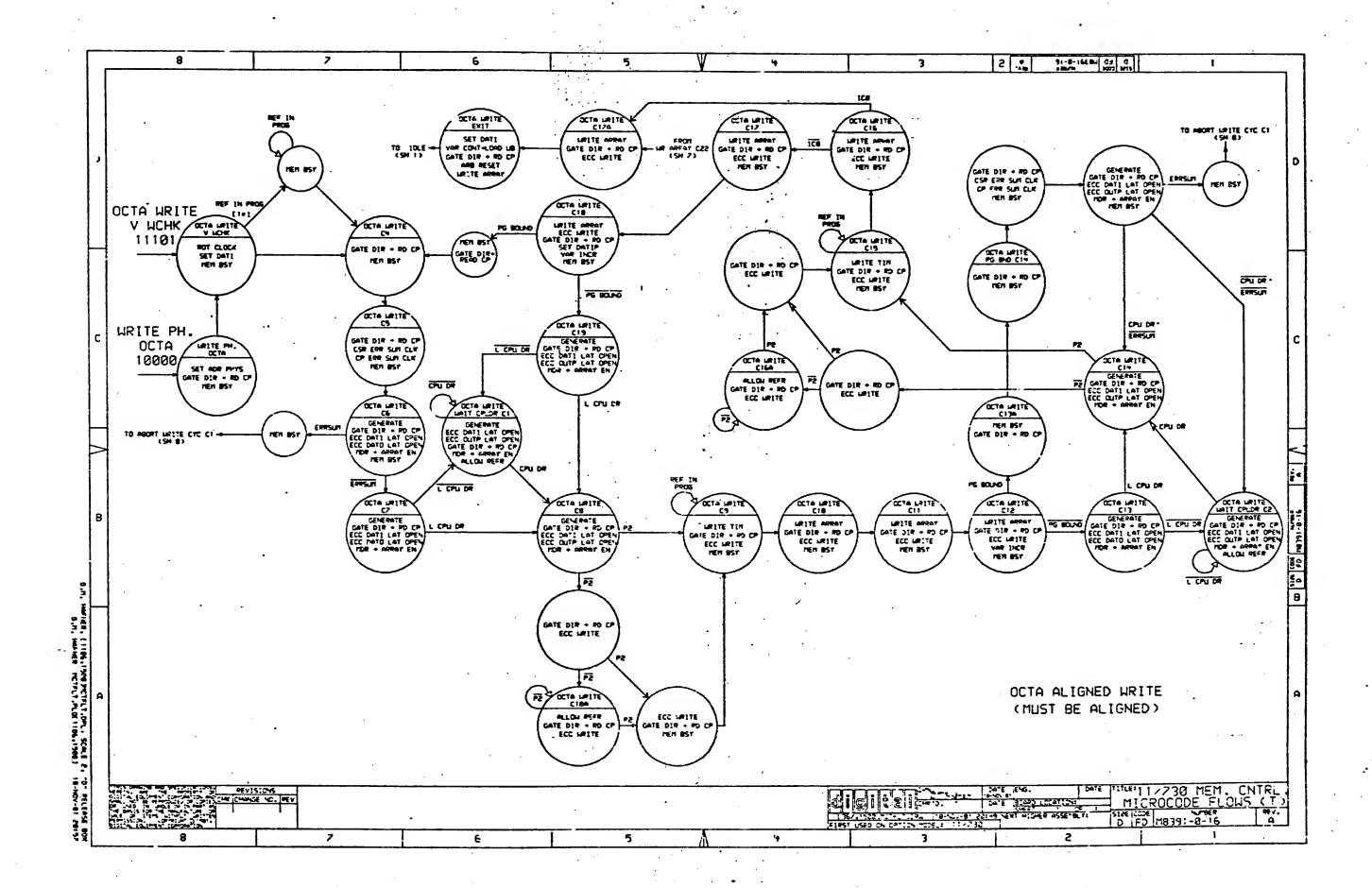


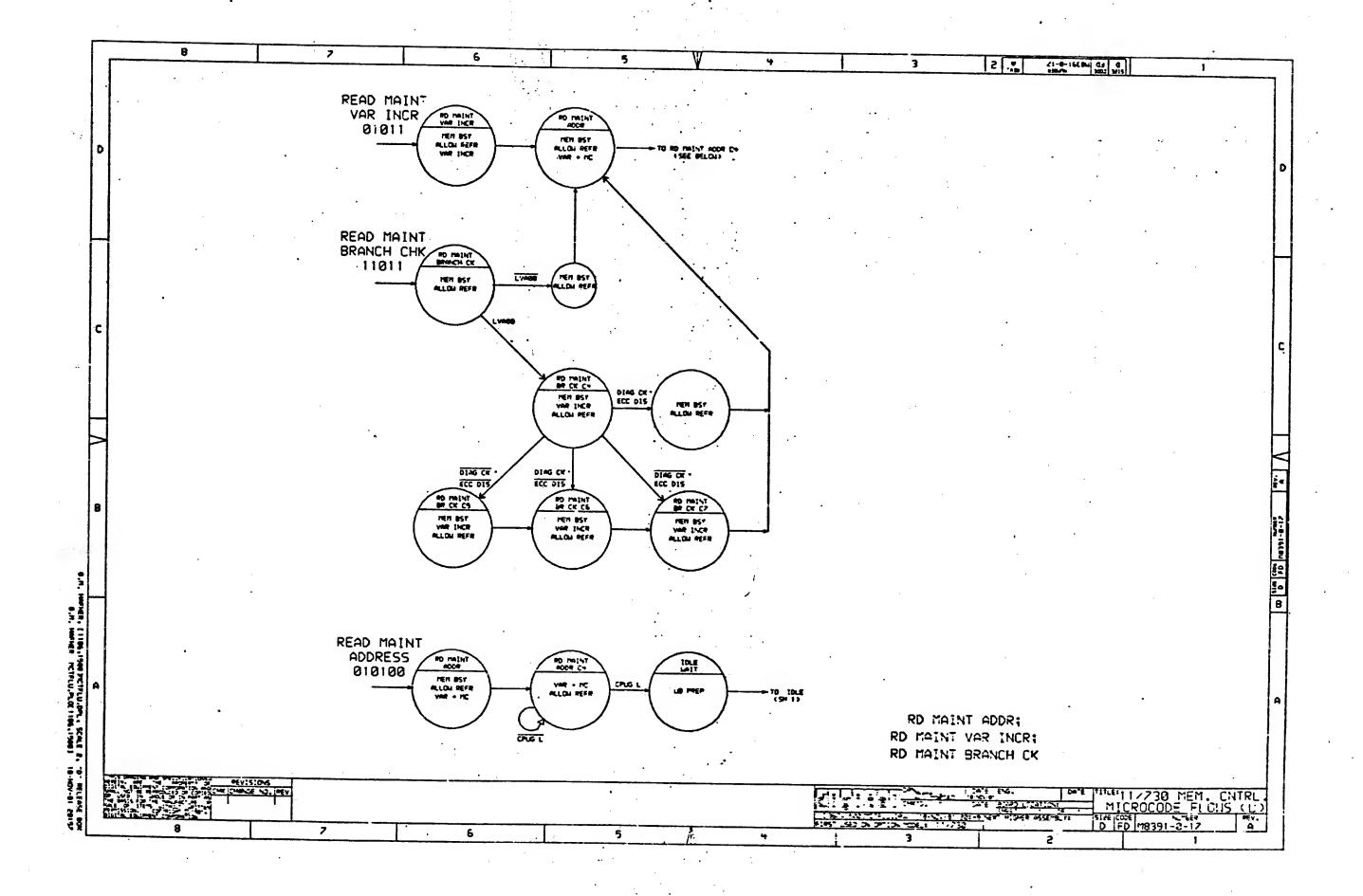


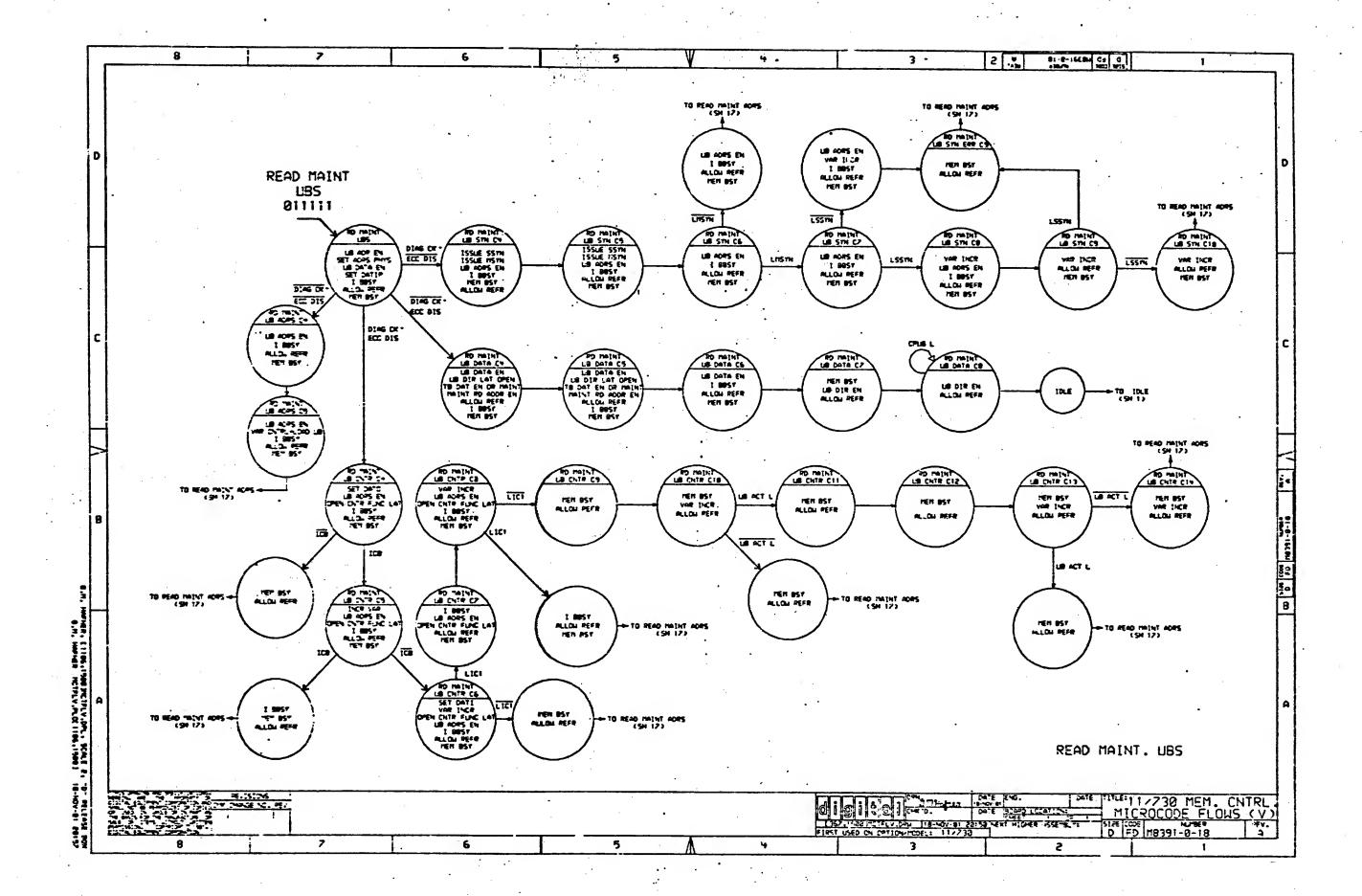


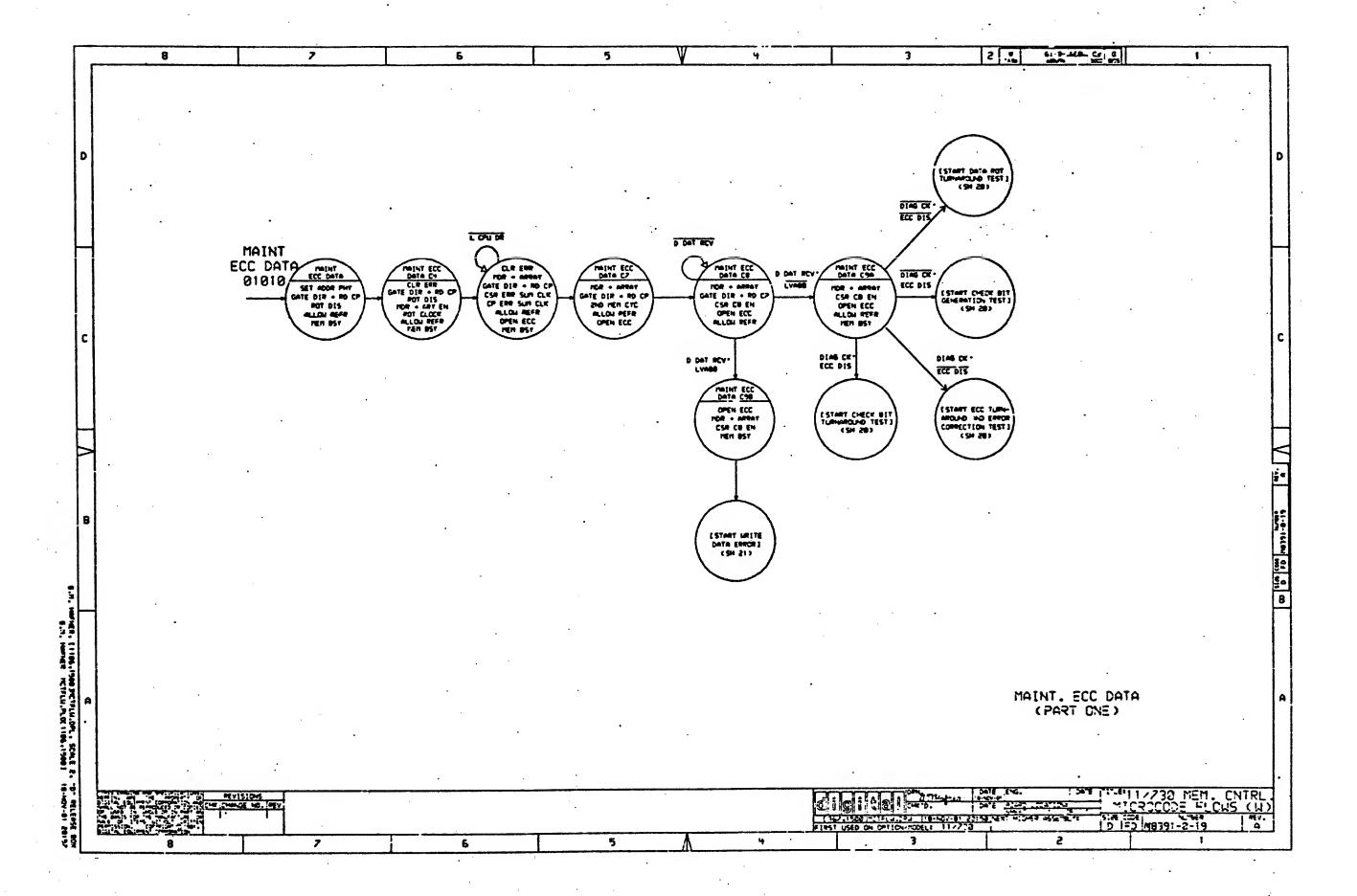


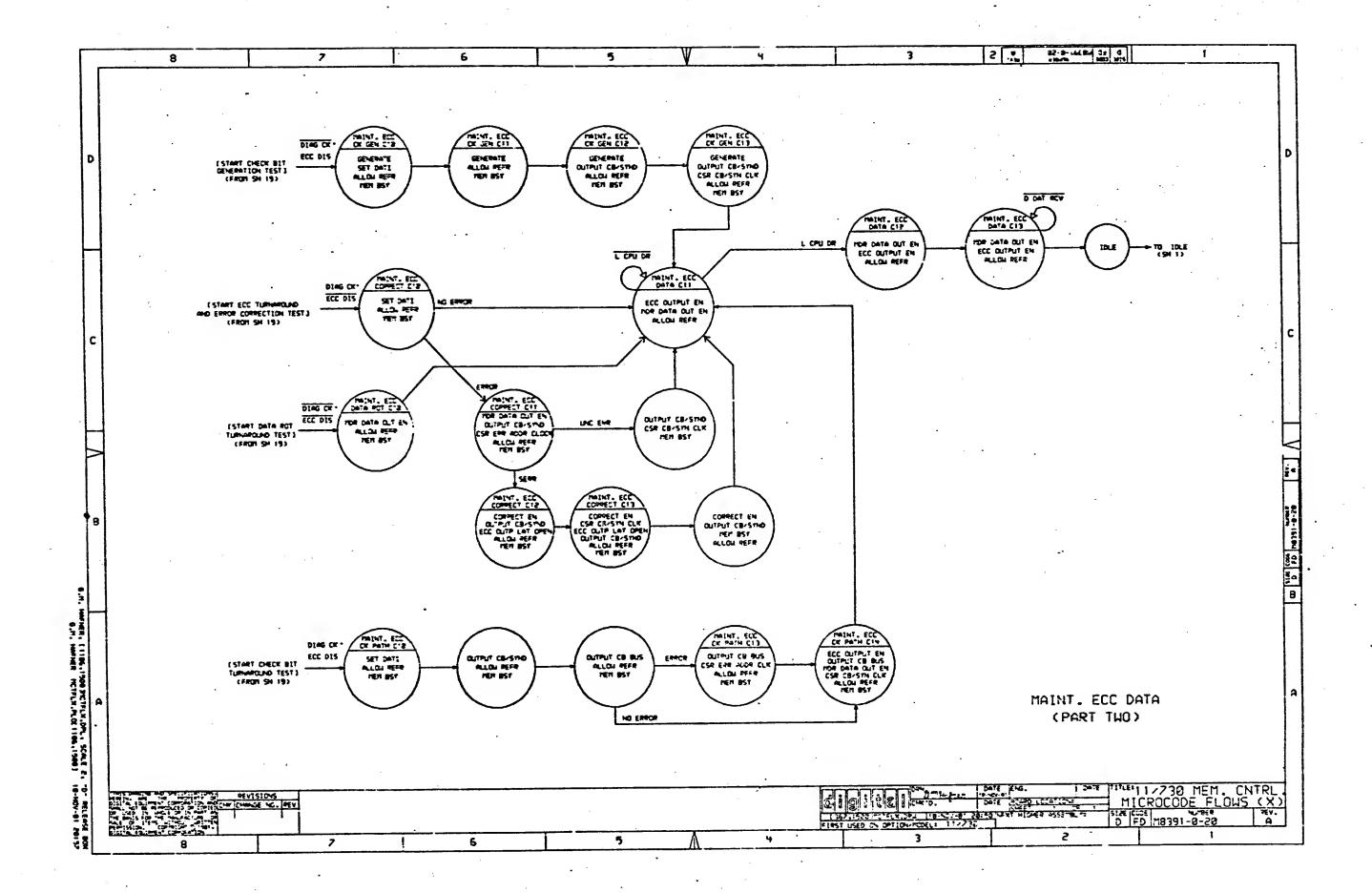


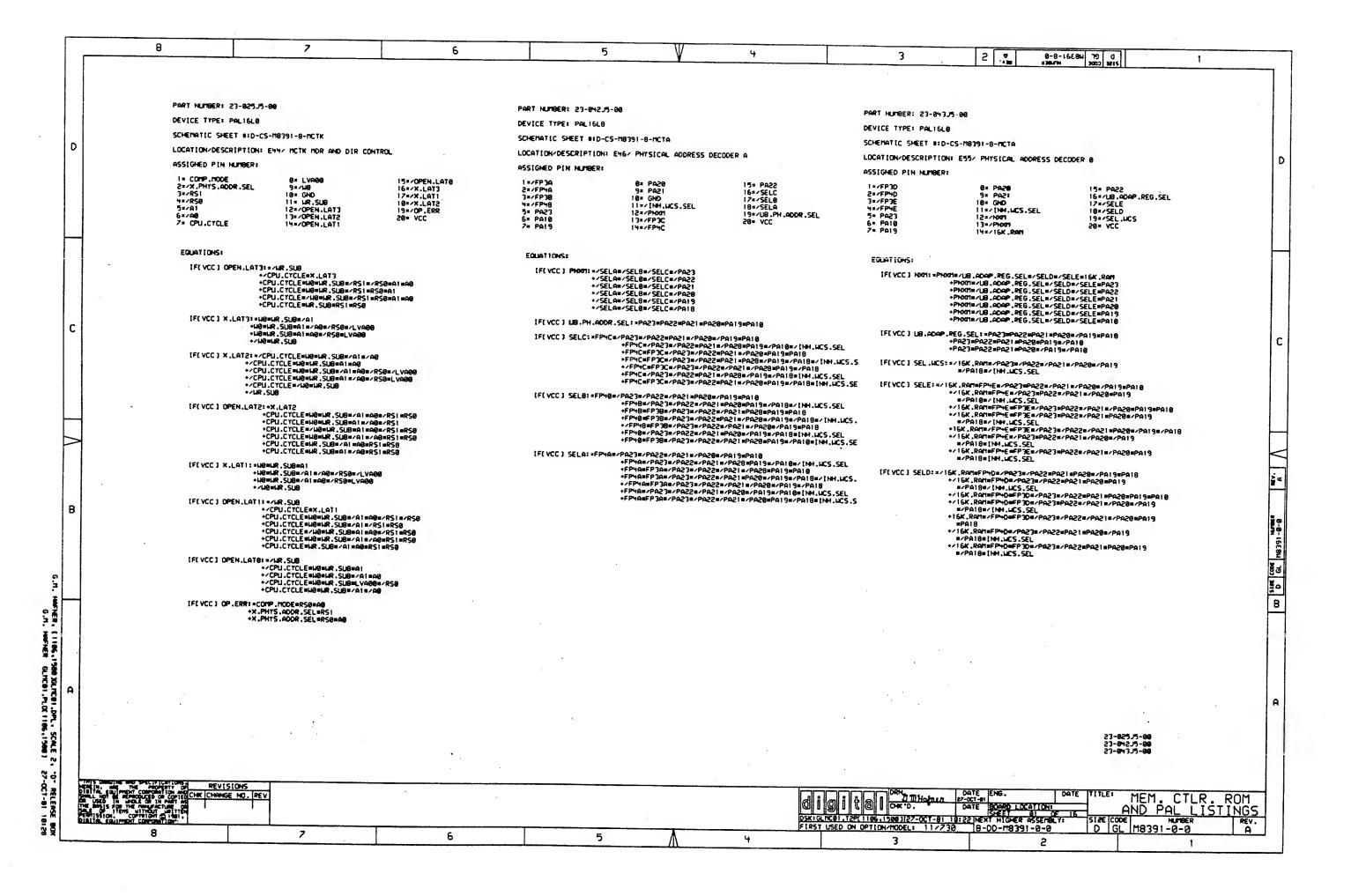












0 CC 118331-9-8 1 5 3 5 7 6 8 PART NUMBER: 23-817X3-08 PART NUMBER: 23-961J5-00 PART NUMBER: 23-844J5-88 DEVICE TYPE: PALIGRY DEVICE TYPE: PALISLE DEVICE TYPE: PALIGLE SCHEMATIC SHEET #: D-C5-M8391-8-MCTL SCHEMATIC SHEET #: D-C5-M8391-8-MCTF SCHEMATIC SHEET #10-CS-M8391-8-MCTA LOCATION/DESCRIPTION: E3-E7-E13-E15/ DATA ROTATOR & LATCH LOCATION/DESCRIPTION: E61/ MCTF CSR CONTROL LOCATION/DESCRIPTION: ERY/ CONTROL PREFETCH ASSIGNED PIN NUMBER: ASSIGNED PIN NUMBERT ASSIGNED PIN NUMBER: 8\*/CTC1 9=/MOR.DATOLIT.EN 15=/0A816 15=/UB.LR0\$ 16= NC 17= NC 1 = REG.CLK.H 8=/CLR.UB.RDS 15= NC 16= CSR.2.CLK 17= WR.CSR.1 18=/0P.PREF.ADDR 16±/0A898 17=/0A898 18= MC98 19= MC98 8= LVA3 9= ERR.SUM.CLK 18= GND 11= NC 12=/0P.ART.ADDR 13= CPU.CYCLE 1=/ERR.ADDR.CLK.A 2=/IA898 3=/IA898 4=/IA816 1 = CSR.19 2=/SERR 3=/ERR 9= 2ND.MEH.CTC 10= GND 11= L.ECC.DIS 10= GND 11=/DIR.HRBYT.EN 2=/CPUG 3= OPEN.CONT.LATCH 4= PG.BHO.PREF 5= PG.BHO 4= INH.REP.CRD 5= CPU.CYCLE 6= ERR.SUM.CLK 18= LRDS 19= NC 5=/IA824 6=/A8 7=/A1 12= MC24 13= MC16 19= /PG .BOUND 50= ACC 20= VCC SO= ACC 14=/09824 6=/HR.CSR 14=/DAT .ERR 7=/UR.CSR 7= LVA2 EQUATIONS: EQUATIONS: EQUATIONS: IF(HOR.DATOUT.EN) /MC24:= CYC1#/A1#/A8#/IA824 1F(VCC1 LB.LROS1=/SERR=ERR=ERR.ADDR.CLK.A=/CPU.CYCLE +/CLR.LB.ROS=LB.LROS +/A1m A0m/IA888 + A1m/A0m/IA888 + A1m A0m/IA816 IFEVCC 1 OP .ARY .ADDR: =/OP .PREF .ADDR +/CYC1=/A1=/A8=/0A824 IF[ VCC ] CLR.LB.ROS: =LR.CSR=LVA30/LVAZ IF(MDR.DATOUT.EN] /MC16:=CYC1=/A1=/A0=/[A016 +CYC1=/A1= A0=/[A024 + A1=/A0=/[A006 + A1=/A0=/[A006 [F[VCC] /CSR.2.CLK:=/ERR.SUM.CLK=/LVA2 +/ERR.SUM.CLK=/LVA3 +/ERR.SUM.CLK=/LVA3 +/LR.CSR=0CPU.CYCLE +/CYC1=/A1=/QA816 IF[VCC] /LRDS:=CPU.CYCLE=ERR.SUM.CLK=/2ND.MEM.CYC +UR.CSR +/LRDS=SERR OA824:= CYC1=/MDR.DATOUT.EN#/A1=/A8=MC24 + CYC1=/MDR.DATOUT.EN#/A1=/A8=MC16 + CYC1=/MDR.DATOUT.EN# A1=/A8=MC88 + CYC1=/MDR.DATOUT.EN# A1=/A8=MC88 +CPU.CYCLE=/LVA3 \*/LROS=/ERR +/LROS=/ERR.ADDR.CLK.A +/LROS=/CPU.CYCLE IF[VCC] /MR.CSR.1:=/MR.CSR IFEVCC 1 /LCRD: =CPU.CYCLE=ERR.SUM.CLK=/2ND.HEH.CYC OAB161=CYC1=/HDR.DATOUT.EN=/A1=/AB=HC16 +CYC1=/HDR.DATOUT.EN=/A1=AB=HC88 +CYC1=/HDR.DATOUT.EN=A1=/AB=HC89 +CYC1=/HDR.DATOUT.EN=A1=AB=HC89 +CYC1=/HDR.DATOUT.EN=A1=AB=HC87 +LVA3 +UR.CSR +/LCRD=/SERR IFEVCC 1 OP.PREF.ADDR: =/CSR.19=CPUG=OPEN.CONT.LATCH \*/LCRO#/SER\*

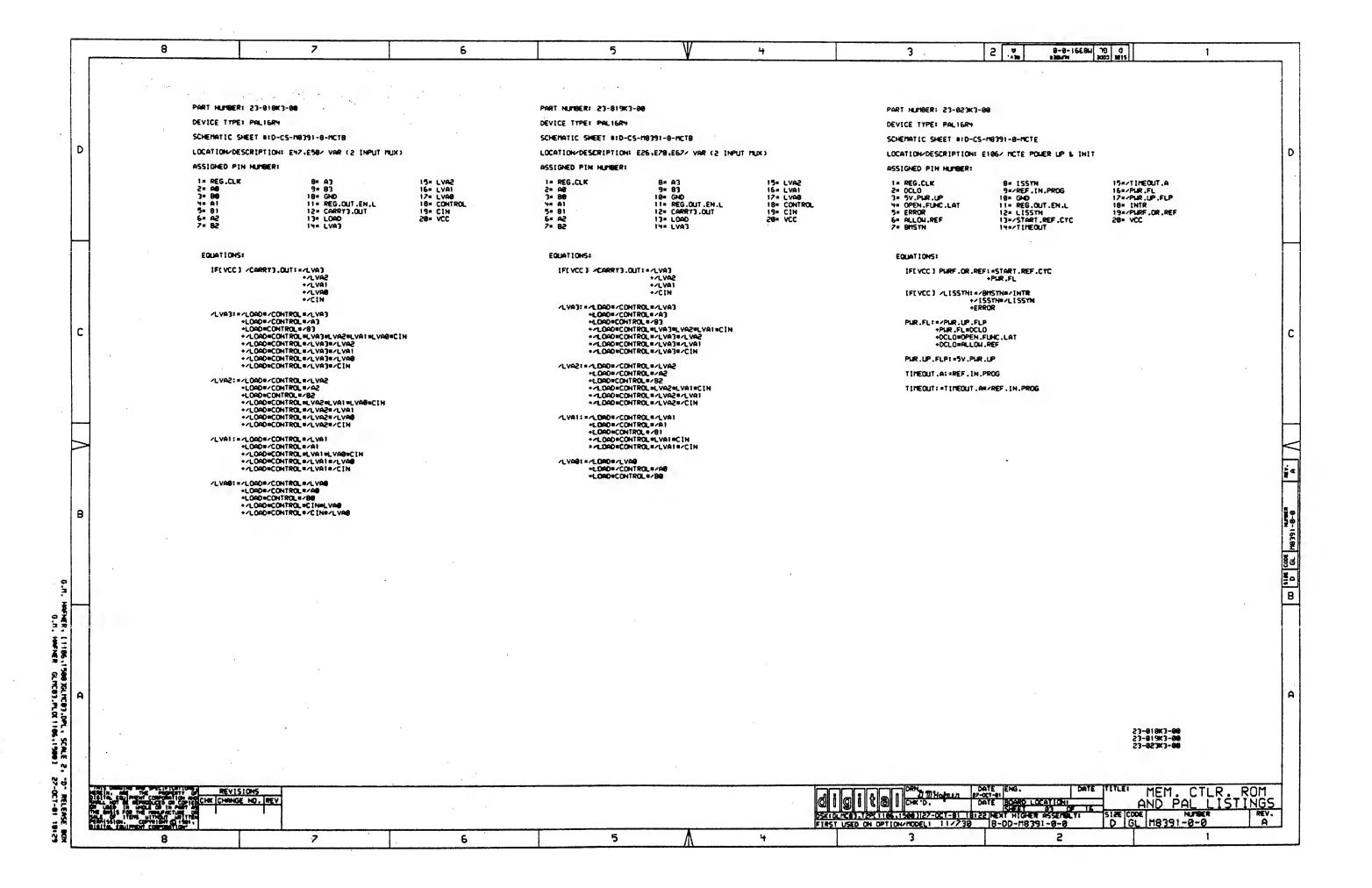
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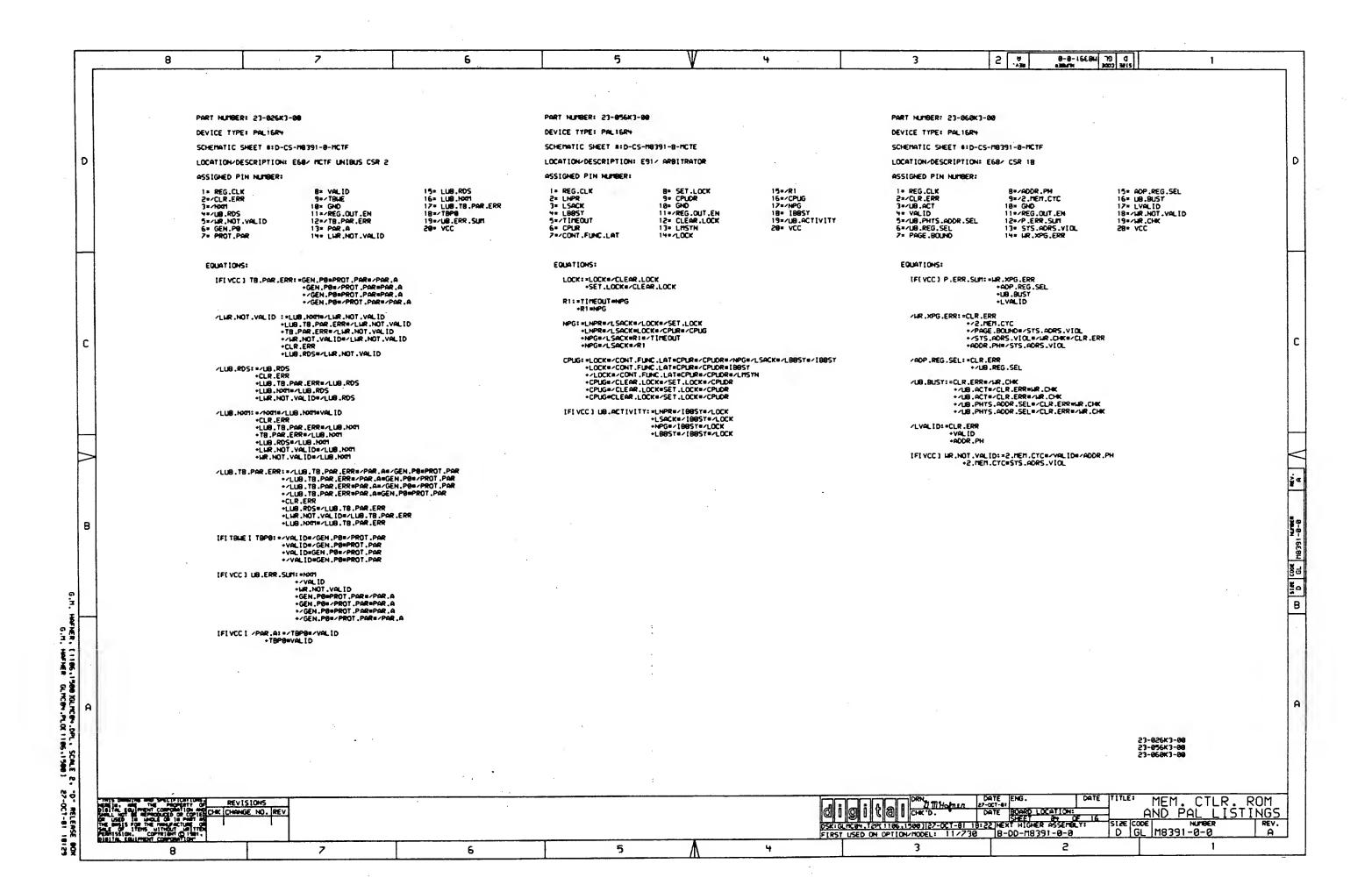
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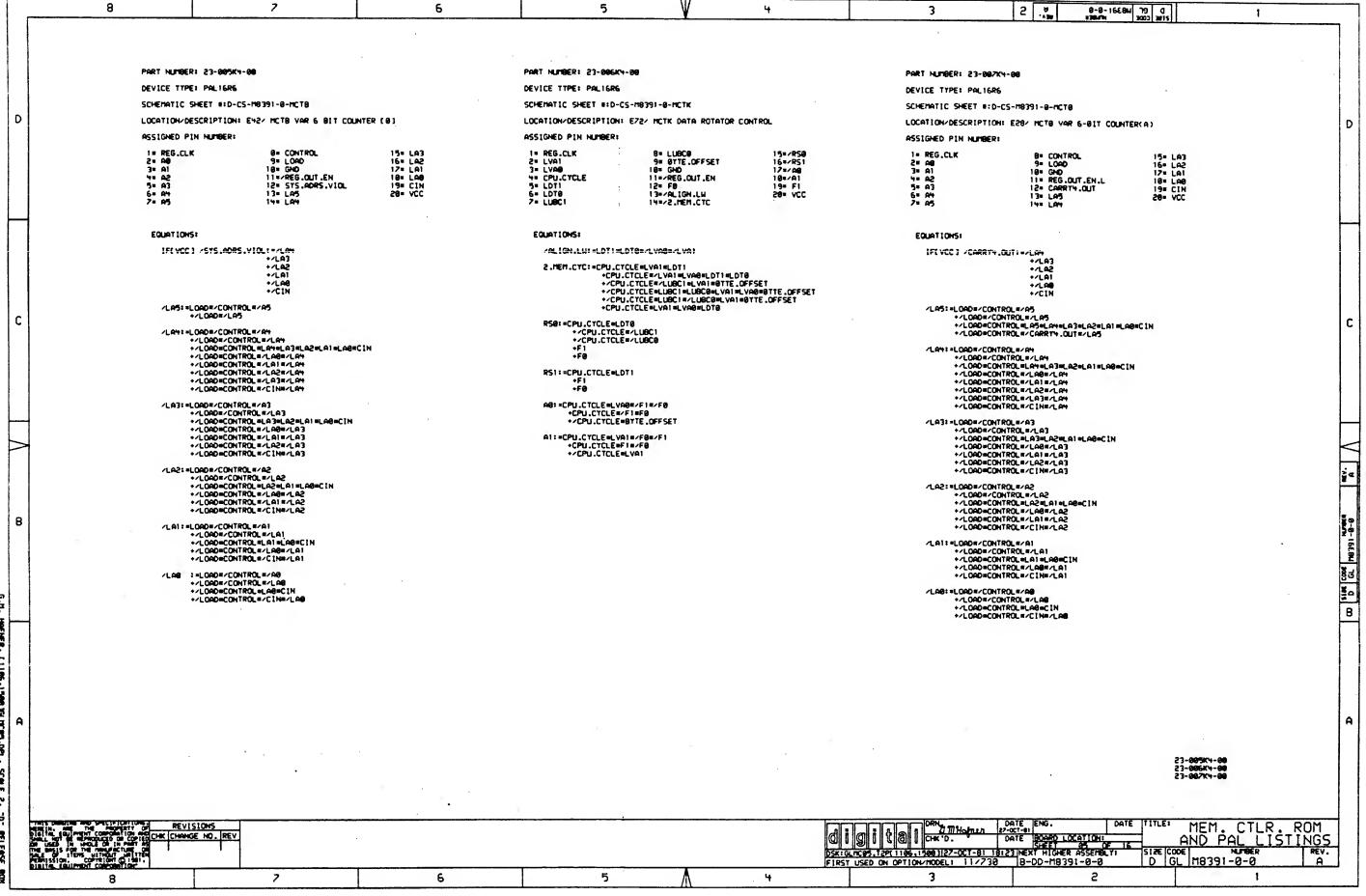
\*/LCRO#/CPU.CTCLE

\*/LCRO#[NH.REP.CRO +OP .PREF .ADDR=/OPEN.CONT.LATCH +OP .PREF .ADDR=CPUG +CYC1=/A1=88=IA824=MDR.DATOUT.EN 1F( VCC 1 PG.80UND: =OP.PREF.ADDR=PG.8NO.PREF +/OP.PREF.ADDR=PG.8NO QAB08: =CTC1=/MDR.DATOUT.EN=/A1=/A0==1C08 +CTC1=/MDR.DATOUT.EN=/A1=A0==1C08 +CTC1=/MDR.DATOUT.EN=A1=/A0==1C15 +CTC1=/MDR.DATOUT.EN=A1=/A0==1C15 +CTC1=0A808 +CTC1=DR.DATOUT.EN=/A1=A8=IA816 +CYC1=HDR.DATOUT.EN=A1=/A8=IA824 IFEVCC1 /CPU.CYCLE: #/CPU.CYCLE#/CPUG +/CPUG+OPEN.CONT.LATCH OBB88: =CYC1 = /MDR.DATOUT.EN=/A0=/CB68+CB6 +CYC1 = /MDR.DATOUT.EN=/A1 = /A0=/CB4 +CYC1 = /MDR.DATOUT.EN=/A1 = /A0=/C16 +CYC1 = /MDR.DATOUT.EN=A1 = /A0=/C16 +CYC1 = /MDR.DATOUT.EN=/A1 = /A0= = /A0=/CB6 +CYC1 = /MDR.DATOUT.EN=/A1 = /A0=/CB64 +CYC1 = /MDR.DATOUT.EN=(A1 = /A0=/CB64) +CYC1 = /MDR.DATOUT.EN=(A1 = /A0=/CB64) В IF[MDR.DATOUT.EN] /MC88: =CYC1=/A1=/A8=/IA888 +CYC1=/A1=A8=/IA816 +CYC1=A1=/A8=/IA824 В +A1 =A8=/ [A888 +/CYC1=/A1=/09888 +/CTC1=A1=/A8=/0A888 108. GLMC82.PLO( 1186. 23-844J5-88 23-861J5-88 23-817K3-88 MEM. CTLR. digital CHX'D. DATE BOARD LOCATION:
SHEET 32 OF
18:22 NEXT NIGHER ASSEMBLY AND PAL LISTINGS REVISIONS DSK:GLMC02.T2P(1106,15001)27-007-01 15 FIRST USED ON OPTION/MODEL: 11/730 REV. D GL M8391-0-0 B-DD-M8391-0-0 2 3 2 8 4 5 7

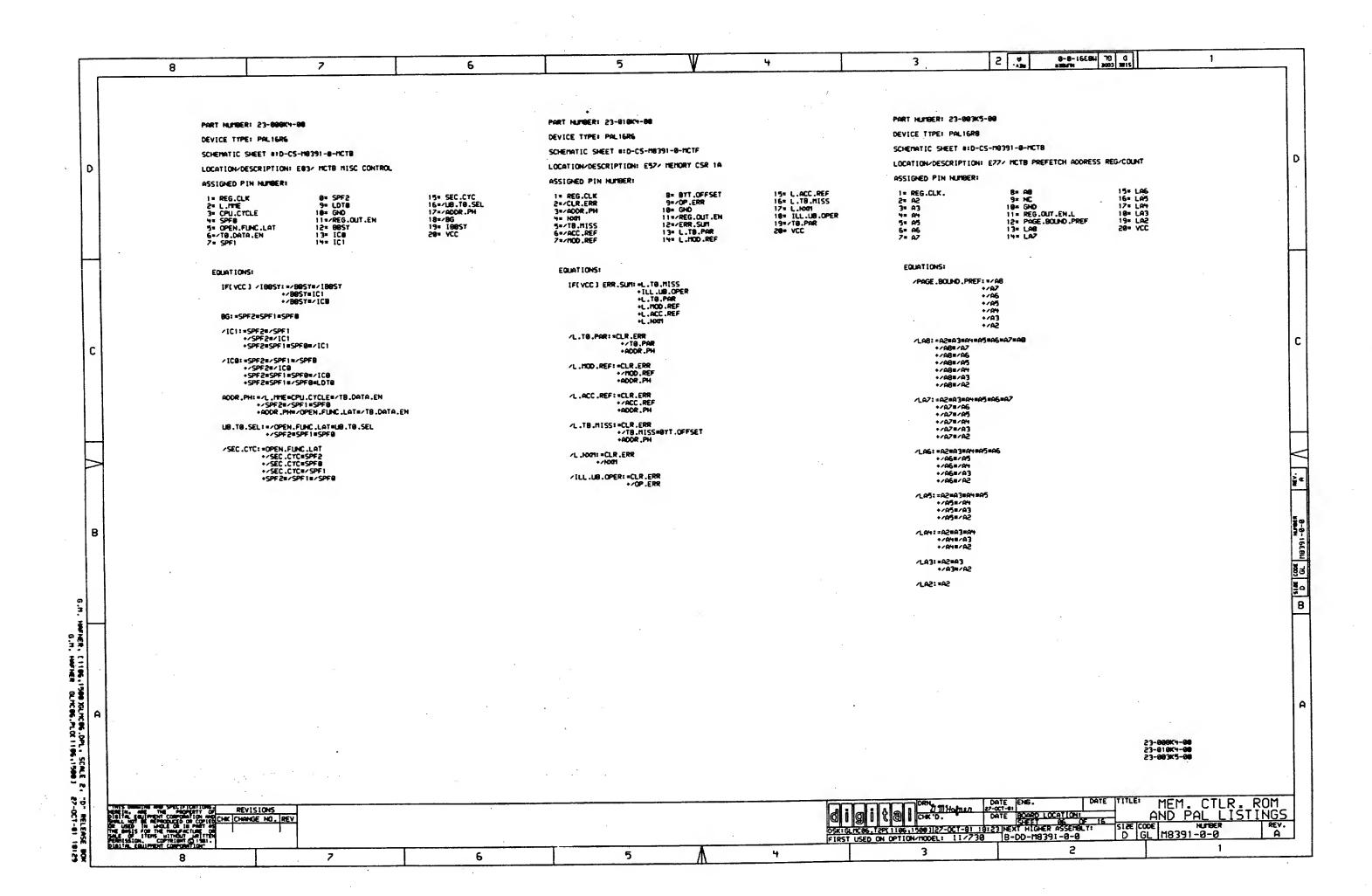
8







. (1186.1588)SCHC85.DPL. SCALE 2. "D" RELEASE B. . HAFHER GLNC85.PLQ(1186.1588) 27-001-81 181



AND PROPERTY OF STREET,		8		-	7			6			5	V	Lę.		. 3	á	9-8-16	0 (PF 1483	1	
- 40 April - A		HEX LOC	HEX BIN			HEX BIN DAT DAT	HEX LOC	HEX DAT	BIN DAT	HEX LOC	HEX BIN DAT DAT	HEX LOC	HEX BIN DAT DAT	HEX LOC	HEX BIN	HEX LOC	HEX BIN DAT DAT	HEX LOC	HEX BIN DAT DAT	
		999 991 992 993 994 995 996 998 999 998 990 998 990 991 911 912 913 914 915 916 916 916 918 916 916	1D 000111 90 100100 00 000010 00 000010 01 000000 04 000001 04 000001 08 000011 08 000011 08 000011 09 000011 09 000011 10 000111 10 000110 10 000110 11 000110	900 911 901 901 900 900 901 911 911 900 901 911 900 911 900 911 900 911 900 911 900 900	12345678998EF0123456789605556095560956096969696969696969696969	90 01000000 0C 00001100 0B 00000110 0B 10111011 0B 10100000 0E 01001110 10 00010000 0E 01101110 0E 01001110 0E 01000000	981 981 983 984 9867 9888 9886 9886 9897 9999 9999 9999	E9 11 13 01 85 100 80 10 81 10 85 10 85 10 85 10 65 11 98 10 60 10 6	001100 011101 100000	9C456789ABCDEFF900090000000000000000000000000000000	C0 11000000  2E 00101110  61 01100001  87 10110111  C0 11000000  C5 11000101  C8 1101000  66 00000110  E8 11101000  C7 11100111  C0 11001101  C7 11100111  C8 11101000  C7 11100111  C7 11100111  C8 11101000  C7 11100111  C8 1110111  C9 11101000  C7 1111010  C7 111010000  C7 1111010000  C7 1111010000  C7 1111010000  C7 1111010000  C8 1111010000  C9 11110100001  C0 11111000001  C0 11111100001  C0 11111100001  C0 11111100001  C0 11111100001  C0 11111100001	100 101 102 103 1045 106 107 108 109 108 110 111 111 111 111 111 111 111 111	95 99999119 A0 10100000 A1 10100001 5C 01011100 29 001001101 6D 01101101 16 00010110 16 00010110 16 00010110 16 00010110 16 00010110 16 00010110 17 0100110 18 00010110 19 0001010 10 000100 10 0001000 10 000100000 10 00000000	14123 14567 1494 1494 1490 14111 14111 150 1556 159 159 159 159 159 159 159 159 159 159	CE 11001110 CE 11001110 48 01001000 47 01000111 53 01010011 9C 10011100 82 10110010 47 01000111 D1 11010001 D3 11010010 B7 10110111 B7 10110101 D8 11010001 D5 11010101 D6 1101010 D6 1101010 D6 1101010 D6 1101010 D7 01011101 D8 11010001 D9 01011101	180 181 182 183 184 186 188 188 188 180 191 193 194 195 198 199 198 199 199 198 199 198	EE 11101110 F0 1:110000 AA 10101010 B1 10000001 10 00010000 87 10000111 DE 11011110 88 10001000 89 10001001 FB 11111000 AB 10101000 DE 11011110 EE 11101110 EF 11111111 BF 101111111 BF 10111011 FF 111110011 PF 11111001 FE 111111001 FE 111111001 FE 111111000001	100 101 102 103 104 105 106 107 108 100 101 102 103 104 105 106 107 108 109 108 109 108 109 108 109 108 109 109 109 109 109 109 109 109 109 109	35 00110101 BD 10001101 15 00010101 C4 11000100 C5 11000101 10 00010000 C7 11000111 C8 11001000 C7 11000111 C8 11001000 CA 11001000 CA 11001101 CC 11001100 CD 11001101 39 00111001 CF 11001101 BB 10001000 43 01000011 AD 10101101 45 01001101 46 010011101 57 110101101 DA 110110101 DA 11011101 DA 11011101 DC 11011101	С
G.M. HAFNER,		921 923 923 925 925 926 927 928 920 920 931 935 935 935 935 935 939 939 939 939 939	BA 101116 18 000116 10 000100 18 000116 17 000116 18 000116 18 000116 18 000100 18 000100 19 000100	1000 1000 1000 1000 1000 111 111 111 11	962 963 9663 9665 9666 9669 9669 9669 9660 9660 9723 9729 9729 9729 9729 9720 9720 9720 9720	74 01110100 CE 11001110 CE 11001110 CE 11001110 CE 01101101 CE 01101101 CE 01101101 CE 01101100 CE 01101100 CE 01101100 CE 01101100 CE 01101100 CE 01101100 CE 01101110 CE 01101111 CE 001101111 CE 001101111 CE 001101111 CE 00110111	123+5678948CDEF0123+5678948CDEF000000000000000000000000000000000000	#E 011 B7 100 B7 100 B7 100 B7 100 B7 100 BF 101 96 000 90 000 91 100 91 100	001101 000110	0E23+567B9ABCDEF0123+567B9ABCDEF00EF0AF7567B9ABCDEF0FF0AF78FABCDEF	44 01000100 AA 10101010 AA 1010010 B7 10110111 EE 11101110 EB 11101011 B1 10000001 B9 10001001 F6 11110110 BA 10001001 F6 11110111 EC 11101100 AI 10100001 D7 110101111 AI 10100001 D7 110101111 AI 10100001 D7 110101111 AI 10100001 D7 110101111 AI 10100001 D7 11010111 D7 110101110 D7 110101100 D7 110101110 D7 110101100 D7 1101011100 D7 1101011100 D7 11010111100 D7 11010111100 D7 1101011111111111111111111111111111111	121 122 123 124 125 126 127 128 129 120 121 131 132 133 134 135 136 137 138 139 130 131	AF 10101111 AE 10101111 AE 10101111 BE 10101111 BO 1011000 24 00100100 BO 10110000 BI 10110000 BI 10110000 BI 10110000 BI 10110000 BI 1011000 BI 10111000 BI 10111000 BI 10111000 BI 10111000 BI 10111000 BI 1011000 BI 10110000 BI 1010000 BI 1010000 BI 10100000 BI 10100000 BI 10100000 BI 1010000000000000000000000000000000000	161 162 163 164 165 166 168 169 168 160 161 170 171 172 173 174 175 176 179 178 179 178 179 178	61 01100001 69 01101001 65 01101010 63 01100011 64 01101010 72 01110010 72 01110010 73 0110010 74 01101010 75 0110010 75 0110010 75 0110010 75 0110010 76 0110110 77 01110000 78 01101010 78 01101010 78 01101010 79 01110000 70 0111100000 70 011111000000 70 0111110000000 71 011110000000000	1142345678948600EF	SD 01101101 A3 10100011 A3 10100011 A6 00000110 A6 10100110 F7 11110111 11 000100001 18 00010100 AC 10101100 F7 11110111 21 00100001 15 00010101 AC 10101100 F7 11110111 21 00100001 15 00010101 B2 1011001 B3 1011001 B4 10110100 B5 10110110 B7 10110111 BC 000101101 BC 1000011101	TEE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E2 11100010 E3 11100010 E3 11100011 BC 10111100 64 01101100 E6 11100110 C0 11000000 08 00001000 E9 11101001 6F 01101111 E4 11100100 EC 11101100 D0 11010000 55 01010101 EF 11101111 78 01111011 F1 11110001 B6 10000110 F3 11110011 7F 01111111 F5 11110110 E6 11100110 E6 11100110 E6 11100110 E6 11100110 E6 11100110 D0 000000000 D0 000000000 D0 000000000	(2) Sim (cook   women   may (cook   cook   women   may (cook   cook   co
(1186-1588) XLMC87.DPL , SCALE 2.	9		·		•,				,								PART NUMBER: 23 DEVICE TYPE:512 SCHEMATIC SHEET LOCATION/DESCRI LEFT COLUMN OF I BINARY DATA "1" BINARY DATA "0"	X 8 #:D-CS-M8 PTION: E99 BIN DATA I = HIGH	/ UCODE (00-07)	A
-D- RELEASE BOX	FRESER	mis manifes the selection of the companion of the compani	REVI	STONS E NO. REV	7			6			5		4	OSK: GLHCO?.	ORN THE CHK'D.  2P(1196.1590)127-001  ON OPTION/MODEL: 1	DATE DATE	<b>£16.</b> D	ATE TITLE:		ROM TINGS REV.

9-9-1689H 79 0 1 3 2 . V. 5 8 6 HEX HEX 8IN HEX HEX 8IN HEX HEX 8IN HEX 8IN HFX 8IN HEX HEX HEX 8IN HEX 8IN HEX DAT LOC DAT DAT LOC LOC DAT DAT 100 02 00000010 00 00000000 140 60 01100000 180 01 00000000 01 0000000 **8C9** 01 00000000 100 000 00000000 848 60 01100000 101 00 00000000 141 50 01010000 181 1000000 101 00000010 00 00000000 81 01 00000001 081 00 00000000 **BC1** 00 00000000 041 50 01011100 102 60 01100000 142 00 00000000 182 68 01100000 01 0000000 982 **9C2** 99 99999999 992 99 9999999 942 01 00000001 103 00 00000000 143 99 00000000 183 81 10000001 00 00000000 81 10000001 083 07 00000111 OC3 21 01110001 993 00 00000000 043 00 00000000 00000000 104 01 00000001 104 01 00000001 144 184 00 00000000 044 00 00000000 01 000000001 **8C4 AN NANANANA** 004 105 00 00000000 145 185 99 99999999 105 38 00111000 50 01010000 01 00000001 085 81 10000001 **BC5** 51 01010001 005 00 00000000 045 01 00000001 106 107 146 01 00000001 186 99 99999999 38 00111000 00 00000000 006 046 01 00000001 086 00 00000000 **3C6** *7*1 0111000 187 00 20000000 107 00 00000000 01 00000001 147 00 00000000 007 01 00000001 047 01 0000000 **087** 00 00000000 9C2 01 000000001 108 02 00000010 00 00000000 148 ØE 00001110 188 10 00010000 108 00 00000000 00000111 880 01 00000001 **9C8** 01 00000001 899 048 189 02 00000012 109 01 00000001 149 00 00000000 10 00010000 01 00000001 989 00 00000000 **9C9** 01 00000001 009 60 01100000 049 10A 5C 01011100 01 00000001 14A 00 00000000 18A 01 00000001 **OCA** 04A 01 00000001 08A 01 00000001 61 0110000 99A 01 00000001 108 188 01 00000001 108 00 00000000 00 00000000 148 01 00000001 01 00000001 088 00000001 **9CB** 03 000000011 998 00000001 048 01 10C 81 10000001 1CC 02 00000010 81 00000001 50 01010000 14C 99 99999999 18C 00C 00000001 98C 01 00000001 **9CC** 00000001 04C 01 100 14D ØE 00001110 18D 00 0000000 1CD 02 00000019 00 00000000 01 00000001 00000001 9CD 01 000000001 000 00000001 04D 01 10E 10F 11 00010001 14E 01 00000001 18E 10 00010000 1CE 00000001 01 00000001 98E 01 00000001 **OCE** 99 00000000 99E 01 00000001 04E 14F 18F 1CF 00000001 00 00000000 88 9666666 01 00 00000000 04F 08F 81 10000001 **OCF** agagaga 1 00F 01 00000001 21 00100001 150 190 99 99999999 06 00000110 110 00 00000000 20 00100000 100 010 00000001 050 71 01110001 090 07 00000111 900 a1 00000001 01 191 99 99999999 101 50 01010000 10 00010000 151 111 00 00000000 01 00000001 051 31 00110001 091 11 00010001 **801** ดา 00000001 911 152 00000000 21 00100001 192 68 01100000 112 01 000000001 992 00 00000000 805 81 88888888 052 60 01100000 012 01 00000001 153 193 81 10000001 103 00 00000000 053 21 00100001 8D3 81 100000001 113 01 000000001 00 00000000 60 01100000 01 00000001 093 013 99 99999999 00 00000000 40 01000000 154 07 00000111 194 00000001 01 00000001 00 00000000 804 91 114 054 094 01 00000001 014 155 195 99 99999999 105 00 00000000 115 81 10000001 01 00000000 055 01 00000001 11 00010001 **805** 21 01110001 01 00000001 095 015 156 00000001 11 00010001 01 00000001 196 14 90010100 106 116 01 00000001 806 00 00000000 056 81 10000001 096 016 01 00000001 117 157 60 01100000 197 99 99999999 107 00 00000000 057 807 01 00000001 00 00000000 01 00000001 01 00000001 097 20 00100000 017 00 00000000 158 10 00010000 198 01 00000001 108 80 10000000 118 EØ 11100000 908 01 00000001 01 00000001 058 01 00000001 998 018 159 01 00000001 109 80 10000000 199 80 10000000 00 00000000 119 60 01100000 059 00 00000000 099 10000001 809 00010001 **Ø19** 15A 158 15C 4E 01001110 19A 26 20000110 60 01100000 118 99 9999999 05A 00000001 09A 01 00000001 **80A** 01 00000001 01 00000001 ดา 01A 80 1000000 198 99 99999999 60 01100000 00 00000000 058 00000001 998 07 00000111 31 00110001 118 01 00000000 018 00 00000000 19C SC 39981199 00 00000000 **BDC** 00000001 110 00 00000000 05C 00000111 09C E0 11100000 01 50 01010000 01C 15D 15E 15F 190 100 80 10000000 06 00000110 20000001 01 000000001 ดา 05D 01 00000001 09D 10000001 900 91 00000001 11D 01 000000001 RID 01 00000001 19E 14 20010100 01 00000001 11E 01 000000001 10000001 90E 00000001 01 00000001 05E 00 00000000 09E 81 01 OIE 19F 00 00000000 70 01110000 90 99999999 01 000000001 00 00000000 **ODF** 60 01100000 11F 01 000000001 05F 01 00000001 09F 01F 00 00000000 160 10 00010000 100 36 3666666 00 00000000 00000001 0E3 01 00000001 120 060 00 00000000 000 01 02 00000111 020 181 00 00000000 1E1 00 0000000 06 00000110 121 122 161 00000001 8E1 66 01100110 10 00010000 021 01 00000000 061 99 99999999 BA1 00 00000000 162 01 000000001 1A2 88 8888888 00 00000000 0000001 9E2 61 01100001 01 000000001 962 01 00000001 **9A2** 01 022 1E3 00 00000000 80 10000000 183 00 00000000 123 01 000000001 163 01 00000000 963 00 00000000 **0A3** 00 00000000 **ØE3** 01 00000001 023 80 10000000 124 125 126 127 00 00000000 184 99 99999999 01 000000001 164 40 01000000 **0A4** ดา 00000001 8E4 01 00000001 91 99999991 064 024 80 10000000 165 145 20 00000000 '00 00000000 0E5 00000001 81 10000001 065 0A5 01 00000001 01 025 91 9999999 50 01010000 89 89888888 01 00000001 8E5 01 00000001 03 00000011 166 01 00000000 186 0A6 01 00000001 01 000000001 066 0E 00001110 026 167 187 1E2 00 00000000 70 31110000 00 00000000 20 01110000 0A7 0E7 00000001 027 067 61 01100001 10000001 01 91 9999999 81 14 00010100 01 000000001 168 01 00000000 1A8 00 00000000 839 99 00000000 128 01 00000001 **0A8** 60010001 860 028 01 00000001 86 10000110 01 000000001 149 01 9999999 129 169 16A **8E9** 00000001 21 00100001 00 00000000 0A9 00 00000000 01 929 929 01 000000001 969 5C 01011100 188 01 20000001 00 00000000 12A 0EA 71 01110001 00 00000000 ØAA 00100001 01 000000001 **06A** 99999991 21 01 1A8 01 2000000 1E8 66 01100110 88 88888888 61 01100001 168 0EB 128 60 01100000 028 97 9999911 968 01 00000001 **8**A9 00000001 160 00 00000000 00 0000000 1AC OC 00001100 ØAC. OEC. 00 0000000 12C 99 99999999 **06C Ø**1 00000001 01 00000001 00 00000000 **02C** 1ED 80 10000000 1 AD 99 9999999 81 10000001 16D 10 00010000 920 00 00000000 06D 00 00000000 **BAD** 01 00000001 **BED** 11 00010001 120 16E 01 00000001 1 AE 14 00010100 00 00000000 06E DAE 01 00000001 ØEE 71 01110001 12E 11 00010001 00 00000000 02E 01 000000001 60 01100000 1EF 16F 00 00000000 20000000 0EF 00000001 12F 60 01100000 06F 00000001 01 02F 01 00000001 01 00 00000000 99 99999999 1FA 10 00010000 01 00000001 180 OF B 00000000 130 00 00000000 120 070 080 00100001 00 00000000 00 00000000 030 10 00010000 80 10000000 1F1 01 00000001 181 19 00 B 131 01 00000001 171 0F 1 00000110 071 081 10000001 031 01 00000001 00000001 01 20 00100000 99 39999999 1F2 172 5C 01011100 182 072 00 00000000 982 00 00000000 9F2 00000000 132 78 81110000 01 000000001 933 935 00 00000000 183 20000000 1F3 00 00000000 173 00 00000000 0F3 60 01100000 133 01 000000001 01 00000001 073 083 00 00000000 39 0011100 01 00000001 184 20000000 1F4 124 81 00000000 074 084 01 00000001 00000000 134 01 00000001 00 00000000 034 1F5 00 00000000 175 00 00000000 185 01 00000001 91 99999991 135 035 075 0F5 00000110 01 00000001 00000001 085 81 10000001 01 91 9999999 99919199 1F6 01 00000001 186 176 99 99999999 01 00000001 076 81 10000001 086 01 00000001 OF 5 99999999 136 036 1F.7 99 99999999 177 07 00000111 187 96 99999119 137 01 000000001 037 077 81 10000001 087 01 00000001 OF7 60 01100000 00 00000000 10 00011010 98 99999999 1FR 10 000 10000 188 178 00001111 OF B 00 00000000 138 00 00000000 01 00000001 978 80 10000000 988 938 7E 01111110 1F9 96 99999119 179 10 00010000 189 of9 ofa 01 00000001 139 20 00100000 039 01 00000001 079 61 01100001 089 00 00000000 00 00000000 1FQ 29 99999999 17A 01 00000001 13A 29 81119999 **08A** 10000000 00000000 00 00000000 07A 61 01100001 AFR 00 00000000 1F8 136. 01 00000001 188 70 01110000 50 01100000 128 00000000 OF C 01 9999999 138 01 00000001 978 00 00000000 988 038 00 00000000 1EC 18C 99 99999999 12C 00 00000000 13C 99 99999999 **08C** 00000001 38 00111000 00000001 07C 11 00010001 **03C** ดา 00 00000000 1FD 88 88888888 13D 13E 120 80 10000000 18D 81 10000001 08D 81 10000001 ØFD 00 00000000 21 01110001 07D 01 00000001 **030** 1FF 10 00010000 17E 00 00000000 18E 89819199 OFE 01 00000000 01 00000001 08E 01 00000001 01 00000001 03E 5C 01011100 07E 00 00000000 18F 78 01110000 00 00000000 13F 60 01100000 01 00000001 REF 00 00000000 01 00000000 PART NUMBER: 23-03302-00 .PLO( 1186 DEVICE TYPE:512 X 8 SCHEMATIC SHEET #: D-CS-M8391-0-MCTM LOCATION/DESCRIPTION: E112 / UCODE(08:15) SCALE 1750 LEFT COLUMN OF BIN DATA IS MSB SINARY DATA "1" = HIGH SINARY DATA "0" = LOH MEM. CTLR. ROM ORN THOMALA ZOOT-81 ENG. DATE SOMED LOCATIONS SEET AND OF CHK'S LOCATIONS SEED LOCATION REVISIONS - RELEASE BOX AND PAL LISTINGS REV. D GL M8391-0-0 FIRST USED ON OPTION/HODEL: 11/730 8-00-118391-0-0 3 5 5 7 6

C 1186. See SELEC

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		HEX HEX BIN	HEX HEX 8IN	HEX HEX BIN LOC DAT DAT	HEX HEX BIN	HEX HEX 8IN LOC DAT DAT	HEX HEX BIN	HEX HEX BIN HEX HEX BIN LOC DAT DAT LOC DAT DAT	
		9 <b>09</b>	040 01 00000001 041 01 00000001 042 01 00000001 043 02 00000010	082 02 00000010	9C9 02 00000010 0C1 01 00000001 0C2 02 00000010 0C3 01 00000001	100 02 00000010 101 01 00000001 102 02 00000010 103 01 00000001	140 81 10000001 141 01 00000001 142 81 10000001 143 01 00000001	180 00 00000000 1C0 02 00000001 181 31 00110001 1C1 02 00000010 182 00 00000000 1C2 01 00000001	
`	D	004 00 0000000 005 00 0000000 006 00 0000000 007 D9 11011001	044 01 00000001 045 01 00000001 046 98 10011000 047 81 10110001	984 81 19090991 985 85 19099191 986 92 <b>9999</b> 9919	0C% 01 000000001 0C5 81 100000001 0C6 01 000000001 0C7 81 100000001	104 41 01000001 105 01 00000001 106 41 01000001 107 01 00000001	143 01 00000001 144 81 10110001 145 01 00000001 146 01 00000001 147 01 00000001	183 31 00110001 1C3 01 00000001 184 01 00000001 1C4 02 00000010 185 01 00000001 1C5 02 00000010 186 01 00000001 1C6 01 00000001	D
		008 41 01000001 009 08 00001000 00A 01 00000001 008 01 00000001	048 01 00000001 049 02 00000010 04A 02 00000010 04B 01 00000001	088 01 00000001 089 85 10000101	0C9 80 10000000 0C9 01 00000000 0C4 00 00000000 0C9 41 01000001	108 01 00000001 109 01 00000001 100 01 00000001 100 01 00000001	148 01 00000001 149 01 00000001 14A 81 10000001	187 01 00000001 1C7 02 00000010 188 01 00000001 1C8 02 00000010 189 01 00000001 1C9 02 00000010 180 41 01000001 1CA 01 00000001	
-		00C 99 10011001 00D 99 10011001 00E 0B 00001000 00F 01 00000001	04C 01 00000001 04D 01 00000001 04E 00 00000000 04F 99 10011001	08C 01 00000001 08D 81 10110001 08E 81 10000001	9CC 01 00000001 9CD 01 00000001 9CE 01 00000001 9CF 01 00000001	10C 01 00000001 10D 01 00000001 10E 41 01000001 10F 01 00000001	148 81 10000001 14C 01 00000001 14D 01 00000001 14E 01 00000001 14F 81 10000001	188 01 00000001 1C8 01 00000001 18C 01 00000001 1CC 02 00000010 18D 01 00000001 1CD 02 00000010 18E 01 00000001 1CE 01 00000001	
		010 81 10110001 011 81 10110001 012 81 10000001 013 81 10110001	050 19 00011001 051 19 00011001 052 31 00110001 053 85 10000101	090 81 10000001 091 81 10000001 092 85 10000101	90% 85 19999191 90% 91 99999991 902 98 19911999 903 31 99119991	110 01 00000001 111 99 10011001 112 42 01000010 113 99 10011001	150 00 00000000 151 01 00000001 152 01 00000001	18F 01 00000001 1CF 01 00000001 190 81 10000001 1D0 81 10000001 191 03 0000001 1D1 01 00000001 192 01 00000001 1D2 03 00000011	
		014 81 10110001 015 42 01000010 016 02 00000010 017 02 00000010	954 85 10000101 955 91 999999991 956 92 99999919 957 91 99999991	094 01 00000001 095 81 10000001	904 B1 19119991 905 91 99999991 906 91 99999991 907 91 99999991	114 41 01000001 115 99 10011001 116 41 01000001	153 01 00000001 154 81 10000001 155 02 0000001 156 01 00000001 152 01 00000001	193 11 00010001 1D3 01 00000001 194 01 00000001 1D4 01 00000001 195 01 00000001 1D5 01 00000001 196 01 00000001 1D6 01 00000001	
	С	018 02 00000010 019	058 01 000000001 059 19 00011001 05A 19 00011001 058 09 00001001	098 81 10000001 099 85 10000101 09A 81 10000001 098 81 10000001	008 98 10011000 009 01 00000001 009 98 10011000 008 98 10011000	118 01 00000001 119 08 00001000 11A 41 01000001 118 08 00001000	158 01 00000001 159 01 00000001 15A 00 00000000 158 01 00000001	197 01 00000001 1D7 01 00000001 198 41 01000001 1D8 81 10000001 199 49 01001001 1D9 05 00000101 194 41 01000001 1D4 81 10000001	С
		01C 01 00000001 01D 99 10011001 01E 98 10011000 01F 81 10110001	05C 05 00000101 05D 11 00010001 05E 31 00110001 05F 31 00110001	09C 81 10000001 09D 85 10000101 09E 81 10000001 09F 01 00000001	20€ 19 00011001 200 18 00011000 00€ 19 00011001 00€ 00 00000000	11C 01 00000001 11D 01 00000001 11E 01 00000001 11F 01 00000001	15C 01 00000001 15D 81 10000001 15E 01 00000001 15F 81 10000001	198 01 00000001 1D8 05 00000101 19C 41 01000001 1DC 81 10000001 19D 01 00000001 1DD 85 10000101 19E 01 00000001 1DE 01 00000001 19F 81 10000001 1DF 81 10110001	
	_	020 01 00000001 021 02 00000010 022 01 00000001 023 01 00000001	969 91 999999991 961 91 99999991 962 91 99999991 963 91 99999991	0A0 02 00000010 0A1 85 10000101 0A2 02 00000010 0A3 01 00000001	Ø€Ø 85 10000101 Ø€1 01 00000001 Ø€2 02 00000010 Ø€3 02 00000010	120 01 00000001 121 99 10011001 122 01 00000001 123 99 10011001	160 01 00000001 161 01 00000001 162 01 00000001 163 01 00000001	19F B1 10000001	
	>	024 01 00000001 025 00 00000000 026 01 00000001 027 99 10011001	964 91 99999991 965 91 99999991 966 91 99999991 967 98 99991999	0A4 01 000000001 0A5 81 10110001 0A6 98 10011000 0A7 31 00110001	0E% 31 00110001 0E5 01 00000001 0E6 01 00000001 0E7 02 00000010	124 42 01000010 125 99 10011001 126 01 00000001 127 81 10110001	164 02 00000010 165 01 00000001 166 01 00000001 162 01 00000001	1A4 01 00000001 1E4 81 10000001 1A5 01 00000001 1E5 05 00000101 1A6 01 00000001 1E6 01 00000001 1A7 02 00000010 1E7 81 10110001	V
		028 85 10000101 029 85 10000101 02A 81 10110001 028 01 00000001	968 01 00000001 969 01 00000001 95A 01 00000001 96B 01 00000001	0AB 01 00000001 0A9 02 00000010 0AA 01 00000001 0AB 85 10000101	0E8 01 00000001 0E9 01 00000001 0EA 01 00000001 0EB 01 00000001	128 Ø1 00000001 129 C1 11000001 129 Ø1 00000001 128 B1 10000001	168 81 10000001 169 81 10000001 16A 81 10000001 16B 81 10000001	1AB 41 01000001 1EB 01 00000001 1A9 01 00000001 1E9 81 10000001 1AA 01 00000001 1EA 02 00000010 1AB 01 00000001 1E8 81 10000001	A A
	В	02C 81 10110001 02D 01 00000001 02E 81 10110001 02F 02 00000010 030 01 00000001	96C 01 00000001 96D 01 00000001 96E C1 11000001 96F 01 00000001	0AC 99 10011001 0AD 02 00000010 0AE 99 10011001 0AF 81 10110001	0EC 01 00000001 0ED 01 00000001 0EE 01 00000001 0EF 01 00000001	12C	16C	1AC	MJ9868 91-8-8
6		030 01 00000001 031 01 00000001 032 01 00000001 033 01 00000001 034 01 00000001	070 01 00000001 071 99 10011001 072 99 10011001 073 99 10011001	980 98 19011909 981 31 90119091 982 91 99999991 983 91 99999991	0F0 03 00000011 0F1 01 00000001 0F2 03 00000011 0F3 81 10000001	130 01 00000001 131 01 00000001 132 01 00000001 133 81 10000001	170 81 10000001 171 81 10000001 172 81 10000001 173 81 10000001	180	1 COOF 18391
7	$\dashv$	035 01 00000001 035 01 00000001 036 01 00000001 037 81 10000001 038 02 00000010	074 01 00000001 075 99 10011001 076 99 10011001 077 99 10011001	084 81 10000001 085 31 00110001 086 81 10110001 087 81 10110001	0F4 _03 00000011 0F5    01 00000001 0F6    03 00000011 0F7    B1 10000001	134	174 02 00000010 175 81 10000001 176 41 01000001 177 81 10000001	184 B1 10110001 1F4 02 00000010 185 B1 10110001 1F5 01 00000001 186 41 01000001 1F6 41 01000001 187 B1 10000001 1F7 02 00000010	35 MK C006
G.H. HAFY		039 01 00000001 03A 81 10000001 03B 02 00000010 03C 01 00000001	078 08 00001000 079 08 00001000 07A 08 00001000 078 85 10000101 07C 01 00000001	089 01 00000001 08A 01 00000001 088 41 01000001	0F8 85 10000101 0F9 05 00000101 0FA 11 00010001 0FB 01 00000001	138 01 00000001 139 C1 11000001 13A 01 00000001 13B B1 10000001	178	188	enderstandskie verschiederskie
SR GCHC1		03D 01 00000001 03E 81 10000001 03F 01 00000001	97D 91 99999991 97E 91 99999991 97F 81 19119991	08C 81 10000001 080 81 10110001 08E 01 00000001 08F 01 00000001	0FC 01 00000001 0FD 01 00000001 0FE 31 00110001 0FF 41 01000001	13C 01 00000001 13D 81 10000001 13E 01 00000001 13F 81 10000001	17C 81 10000001 17D 85 10000101 17E 01 00000001 17F 01 00000001	18C 81 10110001 1FC 02 00000010 18D 01 00000001 1FD 02 00000010 18E 41 01000001 1FE 01 00000001 18F 01 00000001 1FF 02 00000010	
(1196,1599.)GLMC18.DPL, SCALE 2,	A				,			PART NUMBER: 23-03502-00 DEVICE TYPE:512 X B	A
SCALE 2				· ·				SCHEMATIC SHEET #:D-CS-MB391-0-MCTM LOCATION/DESCRIPTION: E62 / UCODE(24:31)  LEFT COLUMN OF BIN DATA IS MSB	
∾ .	20	TRIS CHARGE THE PROPERTY OF REVISIONS					۰ - ۱۹۰۰ مرکاتاتاتاتاتاتاتاتاتاتاتاتاتاتاتاتاتاتات	BINARY DATA "1" = HIGH BINARY DATA "0" = LOH  DATE   ENG.   DATE   TITLE: MEM. CTLR. ROM	4
- RELEASE BOX -OCT-81 18138	MEMO	REVISION OF SECTION OF REVISIONS  REVISIONS OF REPORT OF REVISIONS  REVISIONS OF REPORT OF REVISIONS  REVISION OF REPORT OF REVISIONS O						DATE BOARD LOCATION: AND PAL LISTINGS BI 18:24 NEXT HIGHER ASSEMBLY: SIZE CODE NUMBER REV.	
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13.3 13.3 13.3 13.3 GLMC11.PLOC1186 \*D" RELEASE BOX

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С	98 99 90 91 91 91 91 91 91 91 91	E F 0 1 2 3 4 5 6 7 8 9 A 8 C D	11101001 11101001 11101001 11101001 11101001 11101001 11101001 11101001 11101001 11101001 11101001 11101001 11101001 11101001 11101001	94E 94F 9512 953 9553 955 955 955 955 955 955 955 95	E9 11101001 E9 11101001 E9 11101001 E9 11101001 E9 11101001 E8 11101001 E9 11101001 E9 11101001 E9 11101001 E1 11101001	08E 08F 099 091 092 093 095 096 097 098 099 099	ED 11101101 E9 11101001 E9 11101001 D9 11011001 E9 11101001 E9 11101001 E9 11101001 E9 11101001 E9 11101001 E9 11101001 E9 11101001 E9 11101001 E9 11101001 E9 11101001	9CE 9CF 9D9 9D1 9D2 9D3 9D5 9D5 9D6 9D7 9D8 9D8 9D8 9DC	E9 11101001 E9 11101001 E9 11101001 E9 11101001 EB 11101001 EB 11101001 E9 11101001 E9 11101001 E9 11101001 E9 11101001 E9 11101001 EB 11101011 EB 11101001 EB 11101001 EB 11101001 EB 11101001 EB 11101001	10E 10F 110 111 112 113 114 115 116 117 118 119 110 110	E9 11101001 E8 11101001 E9 11101001 E8 11101001 E9 11101001	14E 14F 158 151 152 153 155 156 157 158 158 150 150	EB 11101011 E9 11101001	18E 18F 190 191 192 193 194 195 196 197 198 199 190	E9 1116 E9 1116 E1 1116 E9 1116 C9 1116 E9 1116 E9 1116 E9 1111 E9 1111 E9 1111 E9 1111	31001 1CF 31001 1D0 30001 1D1 31001 1D2 31001 1D3 31001 1D5 31001 1D5 31001 1D6 31001 1D6 31001 1D6 31001 1D6 31001 1D6 31001 1D6	E9 11101001 C9 11001001 E9 11101001 C9 11001001 E9 11101001		С
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G.M. HAS NER: [1186,1508	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2F E9 30 E9 131 E8 132 E9 133 60 134 69 135 E9 137 E9 138 E9 137 E8 137	11101001 11101001 11101001 11101001 011011	96F 979 971 972 973 974 975 978 979 978 970 970 975	E9 11101001 E8 11101001 E9 11101001	9AF 9B9 9B1 9B2 9B3 9B5 9B5 9B6 9B9 9B9 9BB 9BC 9BC 9BE	EB 1110101 EB 1110101 ED 1110110 ED 1110110 ED 1110100 C9 1110100 E9 1110100 E9 1110100 E9 1110100 E9 1110100 E9 1110100 E9 1110100 E8 1110100 E8 1110101 E8 1110101	1	F9 11111001 E9 11101001 E9 11101001 E9 11101001 E9 11101001 E9 11101001 F9 11111001 F9 11111001 F9 11111001 E9 11101001 E9 11101001	12F 130 131 132 133 134 135 136 137 138 139 138 130 130 135	E9 11101001 ED 11101101 E9 1110101 EB 1110101 ED 1110101 E9 11101001	170 171 172 173 174 175 176 178 179 176 176 177 176	E9 11101001 E9 11101001 E9 11101001 E9 11101001 E8 11101001 E8 11101001 E9 11101001 69 01101001 69 01101001 69 01101001 C9 11101001 E9 11101001	180 181 182 183 184 185 186 187 188 180 180 180	D9 116 E9 111 C9 116 F9 111 E9 111	311001 IF 01001 IF, 01001 IF, 001001 IF, 101001 IF, 111001 IF, 101001 IF,	E9 11101001 E9 11101001 E9 11101001 E9 11101001 E0 11101101 ED 11101101 E0 1110100 E9 1110100 E9 1110100 E9 1110100 E9 1110100 E9 1110100 E9 1110100	 	D 0 0 0 HB
C 1196,1598 JGLMC12.PPL, SCALE							χ.	0							DEVICE SCHEMA LOCATIO LEFT CO BINARY	UMBER: 23-03702- TYPE:512 X B TIC SHEET #:D-CS DN/DESCRIPTION: DLUMN OF BIN DAT DATA "1" = HIGH	-M8391-0-MCTM E63 / UCODE<40 A IS MS8	:47>	
CE 2, '0"						· ·		· · · · · · · · · · · · · · · · · · ·				n:		Hotalt 27-00	BINARY	DATA "0" = LON	LE: MFM. (	TLR. ROM	1
- RELEASE BOX	THIS CONTINUES OF THE PROPERTY CONTINUES OF	PROPERTY OF PORATION MODE ED OR COPIED IN PORT AS LFACTURE OF OUT HE TITEM (BOT (C. 1788)	CHK CHANGE NO.	REV					,			O D G		-001-81 18:25	TE BOARD SHEET NEXT HIGH B-DD-M8	391-0-0 [12		MBER REV.	_
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8 7 6 5 3 8-8-16E8H 79 0 2 1 HEX HEX 8IN HEX HEX 8IN HEX BIN HEX HEX BIN HEX 8IN HEX LOC DAT HEX 81N HEX LOC DAT DAT HEX LOC DAT DAT LOC BIN HEX HEX DAT RIN LOC DAT DAT LOC DAT DAT LOC DAT DAT LOC DAT DAT 00000000 040 00 00001010 989 10000010 **0**C0 88 88881888 86 10000110 140 08 00001000 991 99999999 180 041 08 00001011 86 10000110 00001000 9C1 9C2 **0**81 98 02 00000010 88 10001010 101 ØA. 00001010 141 0A 00001010 992 00 00000000 181 042 08 00001011 982 98 00001000 8A 10001010 101 02 00000010 48 01001000 102 83 1000001 142 003 99999999 08 00001000 182 043 82 10000010 98 99991911 **0**83 **0**8 00001000 0C3 0C4 0C5 102 0A 00001010 0A 00001010 103 0A 00001010 143 8A 10001010 99999999 183 80 10001010 8A 10001010 044 084 103 00001100 0A 00001010 80 10001010 104 0A 00001010 144 08 00001000 00000000 045 88 18881818 184 78 01111010 085 00001000 104 02 00000010 00 00001010 105 0A 00001010 145 80 88881818 185 046 086 087 9C6 9C7 5A 01011010 DA GOODIGIA 39 00111001 105 86 88881818 02 00000010 106 0A 00001010 D 146 007 AA 10101010 047 88 88881818 8A 10001016 186 8E 10001110 00001010 0A 00001010 08 00001000 197 0A 00001010 147 **00**8 8A 10001010 0A 00001010 187 5A 01011010 048 00 00001010 **98**8 88 10001010 **0**C8 107 39 00111001 82 10000010 108 0A 00001010 148 999 0A 00001010 82 10000010 188 0A 0000101A 849 AD AGGIAIA 989 98 ØC9 1C8 00001000 00 00001010 02 00000010 109 0A 00001010 149 86 10001010 88 10001011 189 04A 0A 00001010 BO BBBBBBBB **0**8A 98 00001000 9CA 109 02 00000010 82 10000010 10A 0A 00001010 148 998 88 08 00001000 10001010 18A 0E 00001110 A4R 90 99991919 **0**86 0001000 9CB 0A 00001010 8E 10001110 108 0A 00001010 148 00C 08 00001000 AA 10101010 188 0A 00001010 04C 00 00001010 **09** 00001001 9CC 1 CB 00001010 88 18881818 100 98 88881818 140 88 ΘE 00001110 180 10001010 ЙЧĐ NZ RRABBATA 08D **0**8 ØCD. DIDIDONG AN 100 E2 11100010 00001000 88 18881818 100 0A 00001010 14D OF GOOGILIO 82 10000010 **300** 18D 5A 01011010 04E 02 00000010 08E 08F 090 90 00001101 0CE 1CD E2 11100010 0A 00001010 10E 8A 10001010 14E 00 00001010 88 10001011 18E 0A 00001010 94F 86 88881818 **0**8 00001000 **OCF** ICE 0A 00001010 0A 00001010 106 0A 00001010 14F 88 10001000 010 08 00001000 5A 01011010 050 92 99999919 98 00001000 9D9 1CF 0A 00001010 0A 00001010 110 0A 00001010 150 22 00100010 011 08 00001000 190 08 00001000 051 02 00000010 091 98 00001000 0D1 100 88 00001000 00 00001010 111 8A 10001010 151 012 08 00001000 052 8A 10001010 0A 00001010 80 10001010 092 98 00001000 9D2 101 0A 00001010 0A 00001010 112 0A 00001010 152 00 00001010 192 013 08 00001000 08 00001000 053 00 00001010 093 98 903 102 0A 00001010 00001000 00 00001010 113 8A 10001010 153 88 10001010 193 914 08 00001000 08 00001000 054 99 99991919 **0**94 ØA 00001010 **004** 9A 99991919 103 00001010 114 0A 00001010 154 98 99991999 015 0B 00001000 194 7A 01111010 055 00 00001010 **0**95 98 00001000 **0**05 104 9A 99991919 00 00001010 115 8A 10001010 155 B2 10000010 195 016 08 00001000 7A 01111010 056 AR AAAA1A11 096 98 00001000 0D6 105 0A 00001010 0A 00001010 116 0A 00001010 156 88 18881818 196 017 0A 00001010 0B 00001000 057 88 88881818 **0**97 98 00001000 0D7 106 0A 00001010 88 88881818 117 9A 99991919 157 82 10000010 918 08 00001000 197 BA 10001010 958 92 99999919 998 98 00001000 107 0B 00001011 **908** 0A 00001010 118 0A 00001010 158 0F 00001110 198 019 08 00001000 0A 00001010 059 86 88881818 **099** 98 00001000 0D9 108 08 00001000 00 00001010 119 82 10000010 159 84 88881818 0B 00001000 199 0A 00001010 950 00 00001010 09A 98 00001000 **ODA** 109 08 00001000 C 0A 00001010 118 0A 00001010 15A 86 88888118 018 08 00001000 19A 00 00001010 95B DA DODOLOIO 09B 09C 98 00001000 **9**D8 1DA 08 00001000 00 00001010 118 82 10000010 158 0A 00001010 010 0A 00001010 198 08 00001000 95C 90 99991919 98 00001000 1D8 08 00001000 **ODC** 02 00000010 110 01010000 A0 150 00 00001010 190 7E 01111110 01D 00 00001010 **0**5D 86 88881818 09D 09E **08** 00001000 **ODD** 86 10000110 IDC 08 00001000 11D 0A 00001010 15D 08 00001000 19D AIF 0A 00001010 0A 00001010 95F 00 00001010 **08** 00001000 9DE IDD 08 00001000 02 00000010 11E BA 10001010 15E 88 88881818 19E 8A 10001010 0A 00001010 05F 00 00001010 09F ØA 00001010 1DE 8A 10001010 **ØDF** 82 10000010 11F 00 00001010 15F 08 00001000 19F 68 01101000 1DF 929 0A 00001010 969 82 10000010 0A0 09 00001001 0E0 08 00001000 0A 00001010 150 0A 00001010 160 0A 00001010 100 021 0A 00001010 0A 00001010 961 00 00001010 **0**A1 1E0 8A 10001010 ØA. 00001010 0E1 88 10001010 121 8A 10001010 161 0A 00001010 141 0A 00001010 0A 00001010 862 96 99991919 SAO 49 01001001 0E2 1F1 0B 00001000 82 10000010 122 0A 00001010 162 98 99991999 162 0A 00001010 0A 00001010 963 00 00001010 **0A3** 9A 99991919 0E3 1E2 08 00001000 8A 10001010 8A 10001010 163 0A 00001010 02 00000010 183 0A 00001010 064 99 99991919 IF3 0A4 0A5 0A 00001010 08 00001000 0E4 8A 10001010 124 125 0A 00001010 58 01011000 164 025 02 00000010 065 104 7A 01111010 00 00001010 1E4 99 00001010 0E5 0B 00001000 0A 00001010 88 10001010 165 8A 10001010 926 0A6 0A7 105 7A 01111010 0E 00001110 1E5 966 AD BABAIAIA A۵ 00001010 0E6 0A 00001010 08 00001200 126 127 0A 00001010 00 00001010 027 067 186 9A 99991919 0A 00001010 82 10000010 1E6 8A 10001010 0A 00001010 0E7 8A 10001010 08 00001000 167 00001010 197 028 08 00001000 0A 00001010 **96B** 1E7 86 88881818 0AB 98 99991999 9A 99991919 **ØE8** 8A 10001010 128 129 12A 12B 12C 12D 12E 12F 0A 00001010 168 08 00001000 188 029 0A9 0E 00001110 00 00001010 069 9A 99991919 IE8 5A 01011010 88 18881818 **ØE9** 88 10001011 08 00001000 169 08 00001000 149 **828** 8A 88881818 0A 00001010 06A 9A 99991919 DAA 01010000 A0 ØEA 1E9 08 00001000 00001010 0A 00001010 16A 08 00001000 OAB OAC OAD OAE OAF IAA 02B 8A 88881818 0A 00001010 06B 84 99991919 1EA 38 00111000 00 00001010 **ØEB** BA 10001010 98 99991999 16B 08 00001000 188 0A 00001010 FF 11111111 92C 08 00001000 **06C** 0A 00001010 1 E 8 08 00001000 00 00001010 ØEC. 8A 10001010 В 00 00001010 160 58 01011000 180 020 0A 00001010 96D 0A 00001010 1EC 0A 00001010 00 00001010 0ED 00000010 08 00001000 160 0A 00001010 1AD **350** 08 00001000 96E 98 99991999 0E 00001110 1ED 08 00001000 8A 99991919 ØEE 00001010 88 10001010 16E 16F 9E 99991119 1AE 02F 58 01011000 06F 8A 10001010 8A 10001010 1EE 9A 99991919 9A 99991919 0EF 00000010 08 00001000 28 00101000 IAF 939 0A 00001010 38 00111000 IEF 979 0A 00001010 08 00001000 16681 080 0A 00001010 0A 00001010 0F0 80 10001010 170 08 00001000 180 88 10001010 031 08 00001011 071 8A 10001010 IF0 9A 99991919 **081** 90001010 00 00001010 0F1 ØA. 131 99 9999199 121 08 00001000 181 AR AGGALGAG 0A 00001010 IF1 935 *972* 8A 10001010 982 0A 00001010 ØΑ 00001010 0F2 99 00001010 132 172 173 00 00001010 08 00001000 182 93 08 00001000 933 08 00001011 973 8A 10001010 IF2 48 01001000 **0B3** a۵ 00001010 0F3 00001000 133 90 99991191 98 99991999 183 99 99991919 034 01010000 A0 1F3 10001010 00001010 084 085 ЮC 00001100 0F4 0A 00001010 134 00 00001010 174 175 00000010 184 8A 10001010 08 00001000 08 00001000 035 0B 00001011 154 99991999 9B 0A 00001010 135 09 0000100 98 99991999 185 08 20001200 036 81818899 AB 165 08 90901911 8A 10001010 **086** 08 00001000 0F6 01010000 A0 136 86 88881818 1*7*6 1*77* 8A 10001010 В 186 88 10001010 BF7 8A 10001010 037 00 00000000 077 88 10001010 987 1F6 98 99991999 98 137 00001000 00 00001101 08 00001000 187 98 99991999 038 01000000 50 078 82 10000010 1F7 39 00111001 088 00001000 **0F8** 80 08 00001000 138 88 18881818 17B 179 17A 9A 99991919 188 0A 00001010 039 0A 00001010 079 82 10000010 1F8 0E 00001110 089 ØA. 99991919 OF9 0A 00001010 139 0B 00001000 9A 99991919 189 08 00001000 93A 99 99999999 07A 82 10000010 1F9 8A 10001010 00001010 OFA 0A 00001010 13A 00 00001010 9E 99991119 18A 0A 00001010 1FA **03B** 02 00000010 07B 08 00001000 **08B** 9A 10011010 8E 10001110 0F8 00001010 12B 20 1 38 08 00001000 04 00001010 188 98 99991999 03C 0A 00001010 97C OA 0BC 1FR 9A 10011010 00001010 08 00001000 ØFC. 9A 99991919 130 170 0A 00001010 OC 00001100 180 98 99991999 1FC **030** 0A 00001010 **070** 9A 99991919 38 00111000 980 98 99991999 **OFD** 9A 00001010 130 170 08 00001000 18D 08 00001000 BA 10001010 LED 93E 88 99991999 07E 8A 10001010 39 00111001 0A 00001010 REF 0A 00001010 13E 13F 8A 10001010 17E 17F 80 10001010 1BE 8A 10001010 1FF 8A 10001010 99 99991919 39 99111991 07F 98 99991999 0A 00001010 8E 10001110 00001000 00 00001010 18F 0A 00001010 PART NUMBER: 23-03802-00 DEVICE TYPE:512 X 8 SCHEMATIC SHEET #: D-CS-M8391-0-MCTM LOCATION/DESCRIPTION: E86 / UCODE(48:55) LEFT COLUMN OF BIN DATA IS MS8 BINARY DATA "1" = HIGH THE CHARGE TO REVISIONS

THE MENT COMPANY TO THE CHARGE NO. REV.

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THE MENT COMPANY TO THE CHARGE NO. REV.

THE COMPANY TO THE CHARGE NO. REV. BINARY DATA "0" = LOH DATE | ENG. | DA DATE TITLE: MEM. CTLR. AND PAL LISTINGS 512E CODE REV. D GL M8391-0-0 8 7 6 5 4 3

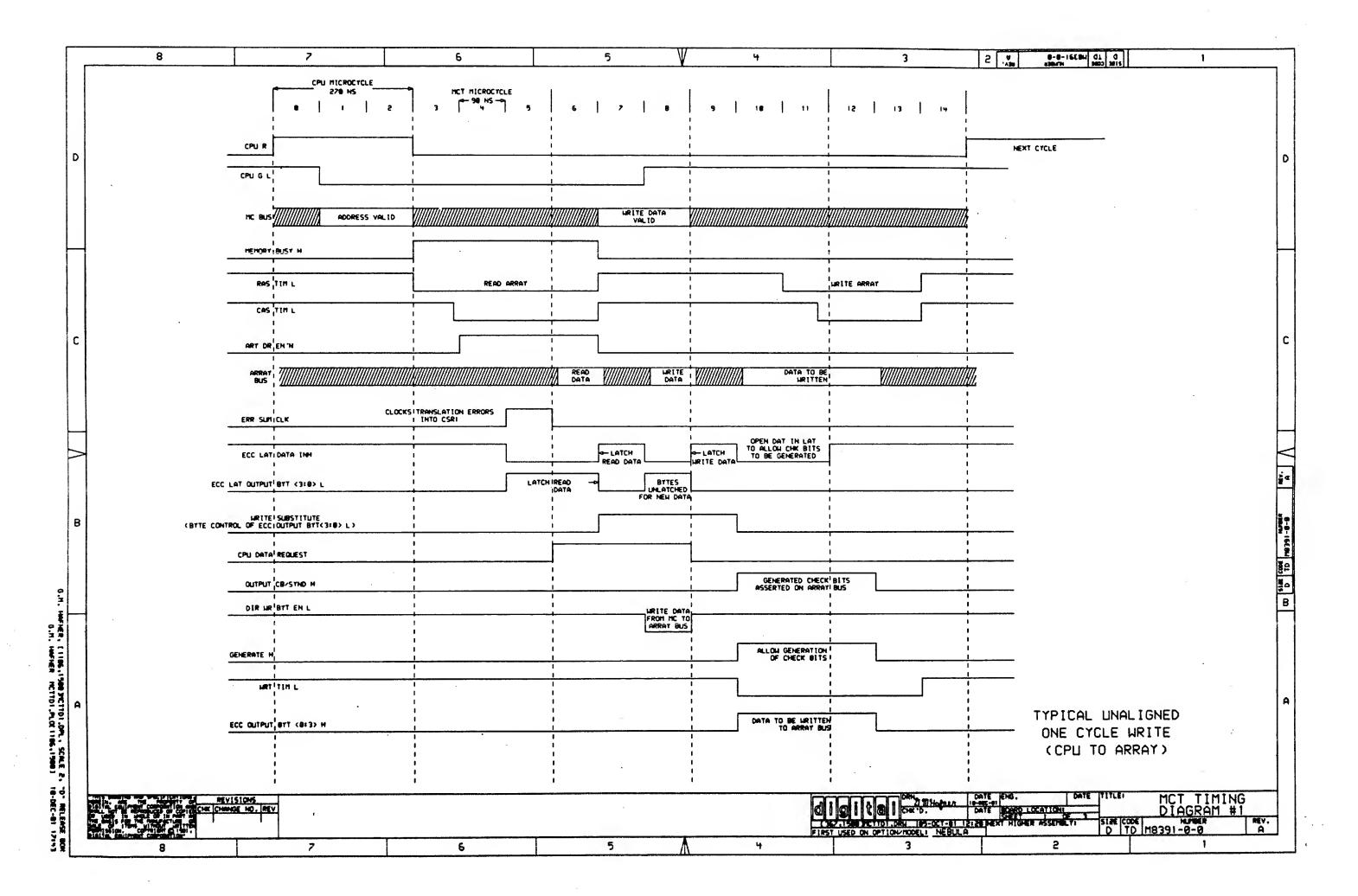
Ã. .7013.7LOX 11

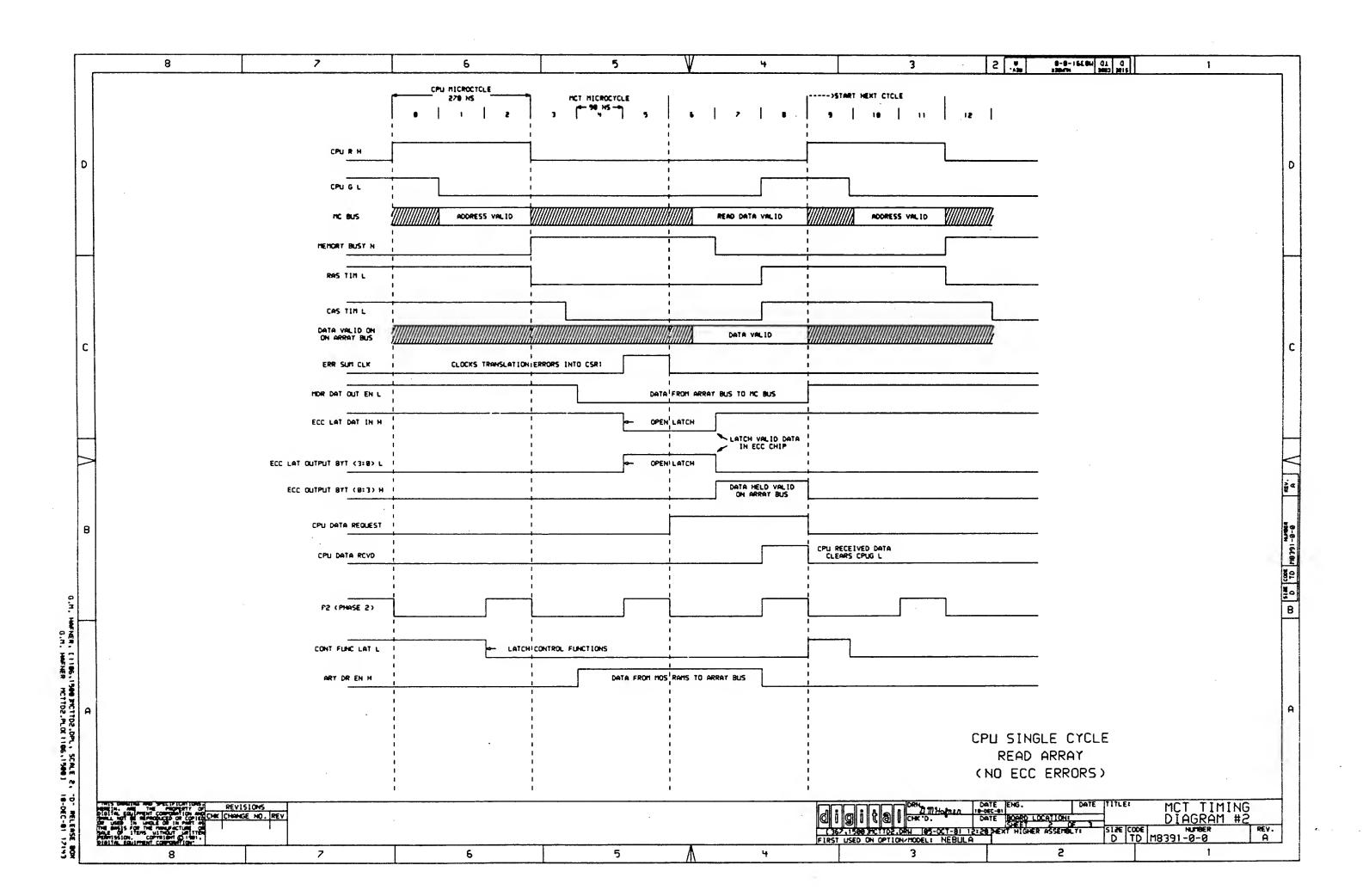
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	HEX LOC	HEX 8IN DAT DAT	HEX HEX 8IN LOC DAT DAT	HEX HEX BIN LOC DAT DAT	HEX HEX BIN LOC DAT DAT	HEX HEX 8IN LOC DAT DAT	HEX HEX 8IN LOC DAT DAT		HEX HEX BIN LOC DAT DAT
D	000 001 002 003 004 005 006 007 008 009 009 008	00 00000000 00 00000000 00 00000000 00 000000	040 E3 11100011 041 E2 11100010 042 E2 11100010 043 62 01100010 044 E2 11100010 046 E2 11100010 047 E2 11100010 048 E2 11100010 049 62 01100010 049 62 01100010 049 E2 11100010 049 E2 11100010	080 62 01100010 081 E2 11100010 082 62 01100010 083 E2 11100010 084 E2 11100010 085 E2 11100010 086 63 01100011 087 E2 11100010 088 E2 11100010 089 E2 11100010 089 E2 11100010 089 E2 11100010	9C0 62 01100010 9C1 E6 11100110 9C2 62 01100010 9C3 A2 10100010 9C4 E6 11100010 9C5 E3 11100011 9C6 A2 10100010 9C7 E2 11100010 9C8 E3 01100011 9C9 E2 11100010 9CA 62 01100010 9CA E2 11100010	100 62 01100010 101 E2 11100010 102 62 01100010 103 E2 11100010 104 EA 11101010 105 E2 11100010 107 E2 11100010 108 E2 11100010 109 E6 11100110 109 E2 11100010 109 E2 11100010 108 E2 11100010 109 E2 11100010 108 E2 11100010	140 91 10010001 141 E2 11100010 142 90 10010000 143 E5 11100110 144 E2 01100010 145 E2 11100010 146 E2 11100010 147 E2 11100010 148 E2 11100110 149 E6 11100110 149 E2 11100010 148 92 10010010 148 92 10010010	181 E2 11100010 182 62 01100010 183 E2 11100010 184 E2 11100010 185 E2 11100010 186 FA 11111010 187 E2 11100010 188 E2 11100010 189 E2 11100010 189 E4 11101010 188 E4 11101010	1C0 62 01100010 1C1 62 01100010 1C2 E2 11100010 1C3 E2 11100010 1C4 62 01100010 1C5 62 01100010 1C6 E3 11100011 1C7 63 01100011 1C8 62 01100010 1C9 62 01100010 1C9 E2 11100010 1C9 E2 11100010
-	990 99E 99F	E2 11100010 62 01100010 E2 11100010	04D E2 11100010 04E 62 01100010 04F E2 11100010	0BD 62 01100010 08E E2 11100010 08F E2 11100010	9CD E2 11100010 9CE E2 11100010 9CF E2 11100010	100 E2 11100010 10E E2 11100010 10F E3 11100011	140 E2 11100010 14E E3 11100011 14F 96 10010110	1BE EA 11101010 18F E2 11100010	1CD 62 01100010 1CE E3 11100011 1CF E2 11100010
С	010 011 012 013 014 015 016 019 018 019 010 010 021 023	E2 11100010 E2 01100010 E2 11100010 E2 11100010 E2 01100010 E2 01100010 E2 01100010 E2 01100010 E2 11100010	959 E2 11100010 951 E2 11100010 952 E2 11100010 953 E2 11100010 954 E2 11100010 955 E2 11100010 956 E2 11100010 958 E2 11100010	090 E2 11100010 091 E2 11100010 092 E2 11100010 093 E2 11100010 094 E2 11100010 095 E2 11100010 096 E2 11100010 097 E2 11100010 099 E2 11100010 099 E2 11100010 099 E2 11100010 090 E2 11100010	900 62 01100010 901 E2 11100010 902 E2 11100010 903 E2 11100010 904 62 01100010 905 E2 11100010 906 E2 11100010 908 E2 11100010 909 E2 11100010 900 E2 11100010	110 E2 11100010 111 E2 11100010 113 E2 11100010 114 E6 1110010 115 E2 11100010 116 E2 11100010 117 E2 11100010 118 E6 11100110 119 E2 11100010 118 E2 11100010 11C E2 11100010	150 62 01100010 151 E6 11100110 152 E2 11100010 153 E6 11100110 154 E2 11100010 155 72 01110010 156 E3 11100010 158 E2 11100010 159 E2 11100010 159 E2 11100010 159 E2 11100010 150 E2 11100010	191 E2 11100010 192 E2 11100010 193 E2 11100010 194 E2 11100010 195 E2 11100010 196 E2 11100010 197 E6 11100110 198 E2 11100010 199 E2 11100010 190 E2 11100010 190 E2 11100010 191 E2 11100010 191 E2 11100010 195 E2 11100010 196 E2 11100010 197 E2 11100010 198 E2 11100010 198 E2 11100010	IDB
	024 925 926 927 929 929 929	E2 11100010 62 01100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010 E2 11100010	064 E6 11100110 065 E2 11100010 066 E2 11100010 067 G2 01100010 068 E2 11100010 069 E2 11100010 069 E2 11100010	0A4 E2 11100010 0A5 62 01100010 0A6 E2 11100010 0A7 E2 11100010 0A8 E2 11100010 0A9 62 01100010 0AA E2 11100010 0AB 62 01100010	9E4 62 01100010 9E5 E2 11100010 9E6 E2 11100010 9E7 62 01100010 9E8 E6 11100010 9E9 E2 11100010 9EA E2 11100010	124 E2 11100010 125 E2 11100010 126 E2 11100010 127 E2 11100010 128 E2 11100010 129 E2 11100010 12A E2 11100010	164 62 01100010 165 E6 11100110 166 C2 1100010 167 E2 11100010 168 E2 11100010 169 E2 11100010 16A E2 11100010	1A6 E2 11100010 1A7 63 01100011 1A8 E6 11100110 1A9 A2 10100010 1AA E2 11100010 1AB E2 11100010	1E4 E2 11100010 1E5 E2 11100010 1E6 E2 11100010 1E7 62 01100010 1E8 E2 11100010 1E9 E2 11100010 1EA 62 01100010 1EB E2 11100010
8	02C 02D 02E 02F 030 031 032	E2 11100010 E2 11100010 E2 11100010 E2 01100010 E2 11100010 E2 10100010 E2 11100010	96C E2 11100010 96D 82 10000010 96E 92 10010010 96F E2 11100010 970 F3 11110011 971 E2 11100010 972 E2 11100010 973 E2 11100010	082 E2   100010 083 E2   100010	8EC E6 11100110 8ED E2 11100010 8EE E2 11100010 8EF E2 11100010 8F0 E2 11100010 8F1 E2 11100010 8F2 E2 11100010	12C E2 11100010 12D E2 11100010 12E E2 11100010 12F E2 11100010 130 E6 11100110 131 E2 11100010 132 E2 11100010 133 E2 11100010	16C 62 01100010 16D E2 11100010 16E C2 1100010 16F E2 11100010 170 E2 11100010 171 E2 11100010 172 E2 11100010 173 E2 11100010	1AD E2 11100010 1AE E2 11100010 1AF 63 01100011 1B0 E6 11100110 181 E2 11100010 182 E2 11100010 183 E2 11100010	1EC E2 11100010 1ED EA 11101010 1EE E2 11100010 1FF E2 11100010 1F1 E2 11100010 1F2 E2 11100010 1F3 E2 11100010
G.H. HAFNER (1186,1588 SCHC14,DPL, SCALE 2, G.H. HAFNER GLHC14,PLO(1186,1588)	934 935 936 937 938 939 934 936 930 930 935	E2 11100010 A2 10100010 E2 11100010 E3 11100011 23 00100011 A3 10100010 A2 10100010 A3 10100011 E2 11100010 E2 11100010 E2 11100010	074 F2 11110010 075 E2 11100010 076 E2 11100010 077 E2 11100010 078 62 01100010 079 62 01100010 07A 62 01100010 07A 62 11100010 07A 62 01100010 07A 62 01100010 07A 62 01100010 07A 62 01100010	085 62 01100010 086 62 01100010 087 62 01100010 088 E2 11100010 089 E2 11100010 080 E2 11100010	### ### ##############################	134 E2 11100010 135 E2 11100010 136 E2 11100010 137 E2 11100010 138 E6 1110010 139 E2 11100010 13A B2 10000010 13A E2 11100010 13A E2 11100010 13C E2 11100010 13C E2 11100010 13C E2 11100010	174 62 01100010 175 E2 11100010 176 FA 11111010 177 E2 11100010 178 E2 11100010 179 E2 11100010 17A EA 11101010 17B E2 11100010 17C E2 11100010 17C E2 11100010 17E E2 11100010 17F E2 11100010	185 62 01100010 186 E2 11100010 187 E2 11100010 188 E2 11100010 189 E2 11100010 18A E2 11100010 18B E2 11100010 18C 62 01100010 18D E6 11100110 18E E2 11100010	1F3 E2 11100010 1F4 62 01100010 1F5 E2 11100010 1F6 FA 11111010 1F7 62 01100010 1F8 E2 11100010 1FA E2 11100010 1FB E2 11100010 1FC 62 01100010 1FC 62 01100010 1FC 62 01100010 1FC 62 01100010 1FF EA 11101010
TC14.DPL SC		·						PART NUMBER: 23-0390 DEVICE TYPE:512 X 8 SCHEMATIC SHEET #:D- LOCATION/DESCRIPTION	CS-M8391-0-MCTM : E73 / UCODE(56:63)
								LEFT COLUMN OF BIN D BINARY DATA "1" = HI BINARY DATA "0" = LO	GH
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- Š	. 8		7	6	5	4	3	2	1

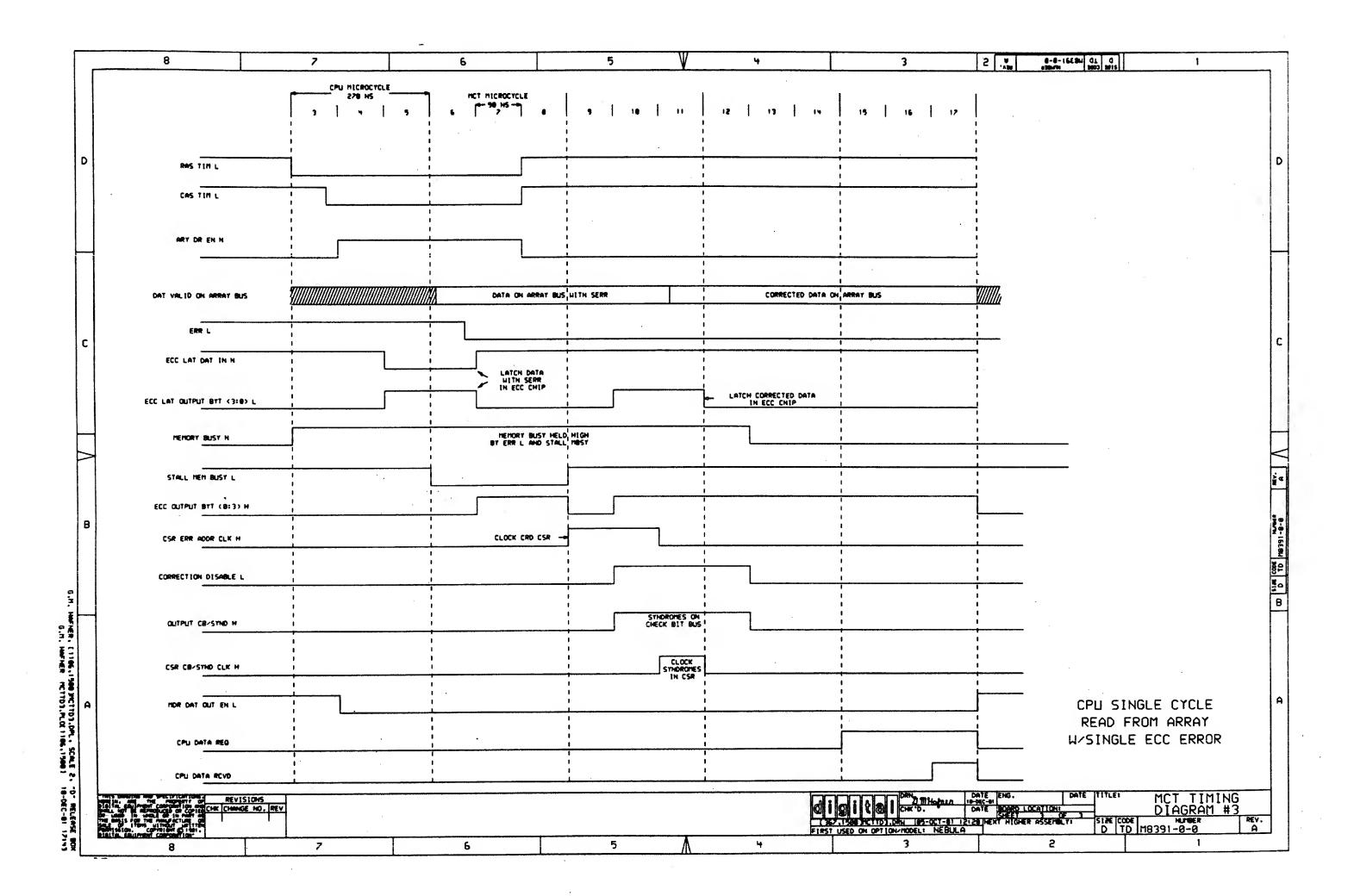
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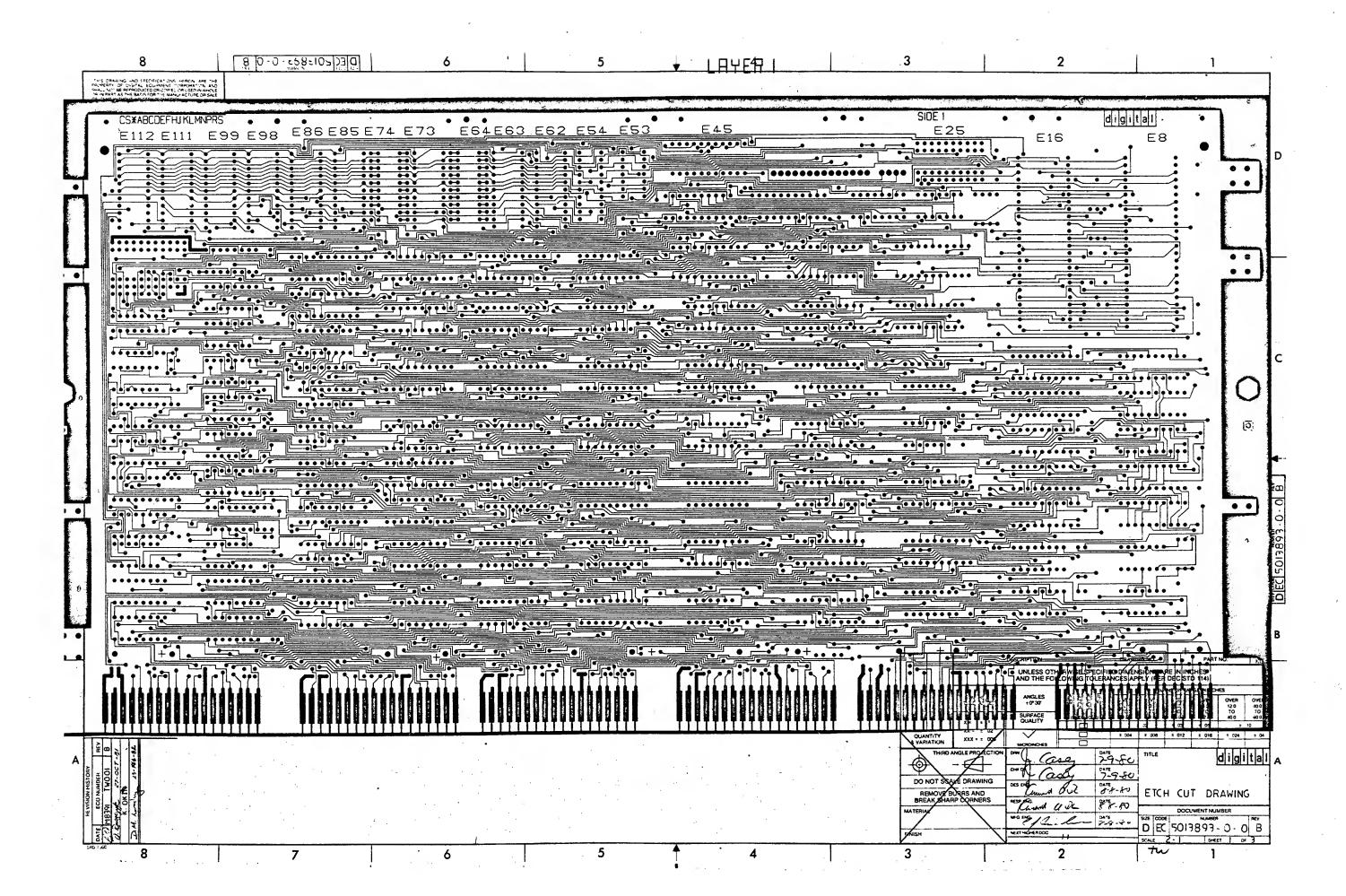
_	8	7	6	5	V 4	3	2 8 8-8-1668 79 d 1	
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D	904 90 0000000 905 90 00000000 906 90 00000000 907 43 01900011	044 43 01000011 045 43 01000011 046 43 01000011 047 43 01000011	084 43 01000011 085 43 01000011 086 43 01000011 087 43 01000011	9C4	104 53 01010011 105 43 01000011 106 50 01010000 107 43 01000011	144	184 63 01100011 1C4 43 01000011 185 43 01000011 1C5 43 01000011 186 43 01000011 1C6 43 01000011	
	00B	048 43 01000011 049 43 01000011 04A 43 01000011	088	9CB 53 01010011 9C9 43 01000011 9CA 53 01010011	108 53 01010011 109 52 01010010 10A 43 01000011	147 43 01000011 148 43 01000011 149 43 01000011 146 43 01000011	187	
	008	048 43 01000011 04C 43 01000011 04C 43 01000011 04E 43 01000011	08B	9CB 53 01010011 9CC 53 01010011 9CD 53 01010011 9CE 43 01000011	108	148	188	•
	00F	04F	0BF	9CF	10F 32 00110010 110 53 01010011 !!! 43 0100001! 112 47 01000111	14F 43 01000011 150 03 00000011 15! 43 0100001! 152 43 01000011	18F	
	013	053	093	9D3	113	153	193	
С	017	057	097 43 01000011 098 43 01000011 099 43 01000011	007	117	156	196	
	01A	05A	09A	904 43 01000011 908 43 01000011 90C 43 01000011 900 43 01000011	11A	15A 23 00100011 15B 43 01000011 15C 43 01000011 15D 43 01000011	19A	
	01E	95E	09E	00E	11E	15E	19E	
Н	022	062	0A2	0E2	122	162 43 01000011 163 07 00000111 164 41 01000001 165 43 01000011	1A2	
	026 03 00000011 027 03 00000011 028 43 01000011 029 43 01000011	066 52 01010010 067 43 01000011 068 5E 01011110 069 03 00000011	0A6	0E6	126 43 01000011 127 43 01000011 128 52 01010010 129 43 01000011	166 43 010000011 162 03 000000011 168 50 01010000 169 50 01010000	1A6	·
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	030 53 01010011 03E 50 01010000 03F 53 01010011	970 43 01000011 97E 43 01000011 97F 43 01000011	08D 41 01000001 08E 43 01000011 08F 43 01000011	0FD 43 01000011 0FE 43 01000011 0FF C3 11000011	13D 43 01000011 13E 43 01000011 13F 43 01000011	170	1BD	
æ							PART NUMBER: 23-040D2-00 DEVICE TYPE:512 X B SCHEMATIC SHEET #:D-CS-MB391-0-MCTM LOCATION/DESCRIPTION: E111 / UCODE<64:71>	f
							LEFT COLUMN OF BIN DATA IS MSB BINARY DATA "1" = HIGH BINARY DATA "0" = LOH	
Exc. 8	THIS CONTROL OF THE PROPERTY O	v5 O. REV	,			digital che's.	DATE BOAGO LOCATION: AND PAL LI	STINGS
No. of the last	Tenissia. Tem current of the control	7	6	5		DSK:GLNC15,12P(1186,1589)127-0CT- FIRST USED ON OPTION/MODEL: 11	81 19:27 NEXT HIGHER ASSEMBLY1   SIZE CODE   NUMBER   1730   B-DD-M8391-0-0   D GL M8391-0-0   1	REV.

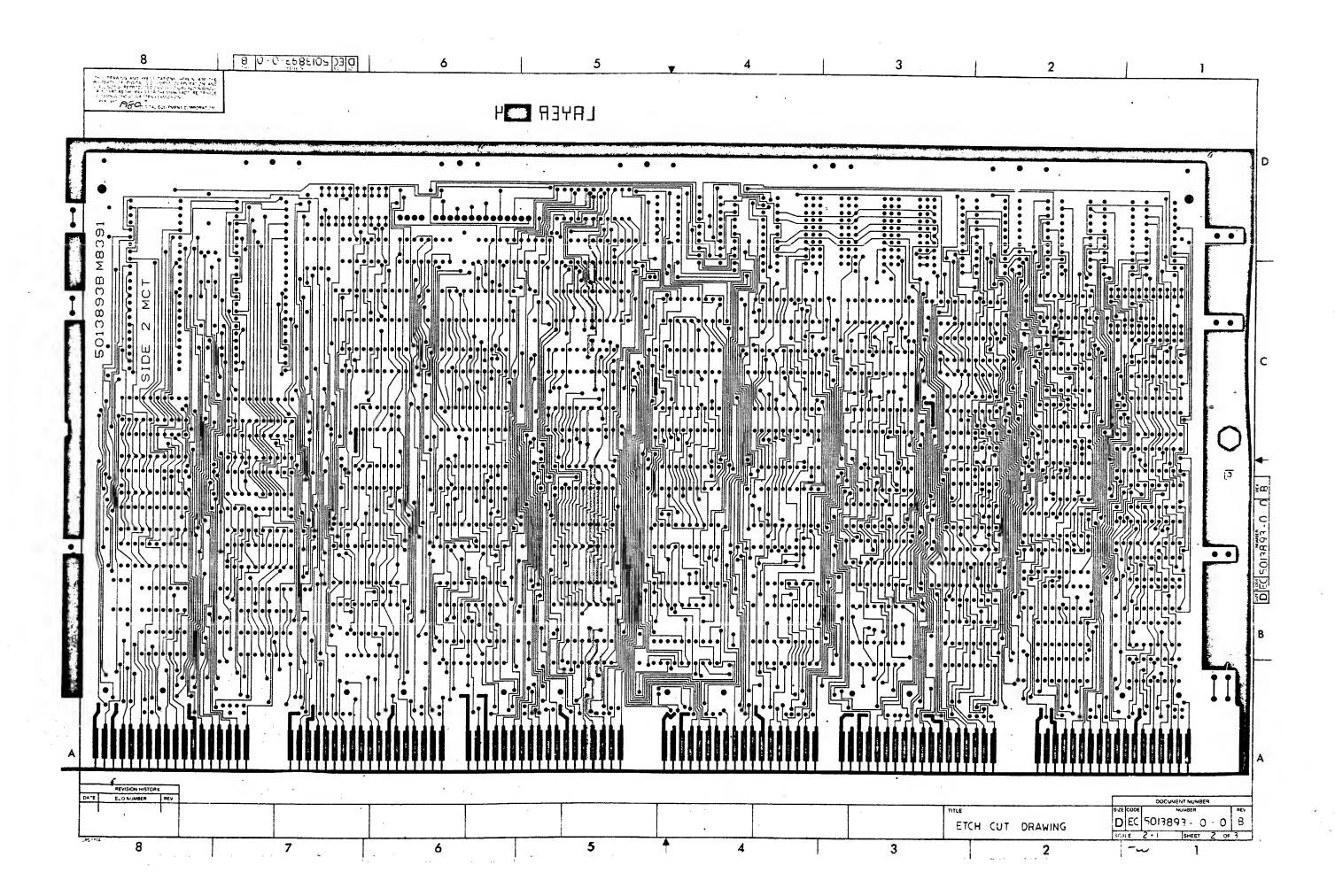
		8	*		7			Б			5		V		4			3		5 .43	8-8-	0 CF 148331		1	
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		008 A 009 A 00A A 00B A	1010 1010 1010 1010	048 049 048 048	4	0100 0100 0100 0100	088 089 08A 08B 08C	5 6	3100 3010 3010 3010 3110	9C9 9CB 9CC	,	1010 1010 1010 1010	16 16 16 16	8 2 9 2	9919 9919 9919 9119	149 146 146	C	1010 1100 1010 1110	189 18A 188 18C	A A E	1010 1010 1010 1110	1C9 1CA 1C8 1CC	. S	0010 0010 0010 0110	- Selvering
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		021 6 022 6 023 6 024 6 025 6	0110 0110 0110 0110 0110	965 965 965	2 E 3 E 1 E	1110 1110 1110 1110	0A2 0A3 0A4 0A5	E E	1110 1110 1110 1110	0E2 0E3 0E4 0E5	6 6 6	0110 0110 0110 0110	1. 1. 1.	22 E 23 E 24 E 25 E	1110 1110 1110 1110	16/ 16/ 16/ 16/	3 6 4 6 5 6	0110 0110 0110 0110	1A2 1A3 1A4 1A5 1A6	6	0110 0110 0110 0110 0110	1E2 1E3 1E4 1E5 1E6	E	1110 1110 1110 1110 1110	ļ- 1
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		02E 6 02F 6 030 E 031 E	0110 0110 1110 1110	97 97	F E 6 1 6	1110 1110 0110 0110 0110	0AF 080 081 082	E 6 6	1110 0110 0110 0110	0EF 0F0 0F1 0F2	6 E E	0110 1110 1110 1110	1 1 1	2F E 30 6 31 6 32 6	1110 0110 0110 0110	16 1 <i>7</i> 1 <i>7</i>	0 E 2 E	0110 1110 1110 1110	1AF 180 181 182	E	0110 1110 1110 1110	1EF 1F0 1F1 1F2	6 6	1110 0110 0110 0110 0110	
6.1		032 E 033 E 034 E 035 E 036 E	1110 1110 1110 1110 1110	97 97 97	3 6 4 6 5 6	0110 0110 0110 0110	983 984 985 986	6	0110 0110 0110 0110	0F3 0F4 0F5 0F6	EEE	1110 1110 1110 1110	1 1 1	33 6 34 6 35 6 36 6	0110 0110 0110 0110	17 17 17 17	4 E 5 E 6 E	1110 1110 1110 1110	183 184 185 186	E	1110 1110 1110 1110 1010	1F3 1F4 1F5 1F6 1F7	6 6	0110 0110 0110 0110	
HOFNER.		037 A 038 E 039 E 03A E	1010 1110 1110 1110	97 97 97	7 6 8 6 9 6	0110 0110 0110 0110	08 <i>7</i> 088 089 08A	2	0010 0110 0010 001 <del>0</del>	0F7 0F8 0F9 0FA	EEAA	1110 1110 1010 1010	1 1 1	37 2 38 6 39 2 3A 6	9919 9119 9919 9119	17 17 17 17 17	8 E 9 A A E	1110 1110 1010 1110 1010	187 188 189 18A 188	A A A	1010 1010 1010 1010	1F8 1F9 1FA 1F8	5 5 5	9919 9919 9919 9919	
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[1186,1588] JEHC16.PLOX 1186,1588	Α .	03F E	1110	07	r 6	0110	08F	6	0110	<del>0.</del> r	_	0	·				_			DEVI	CF TYPE:5	23-946A9-0 12 X 4 ET #:D-CS-		- <b>0-</b> mcTC	
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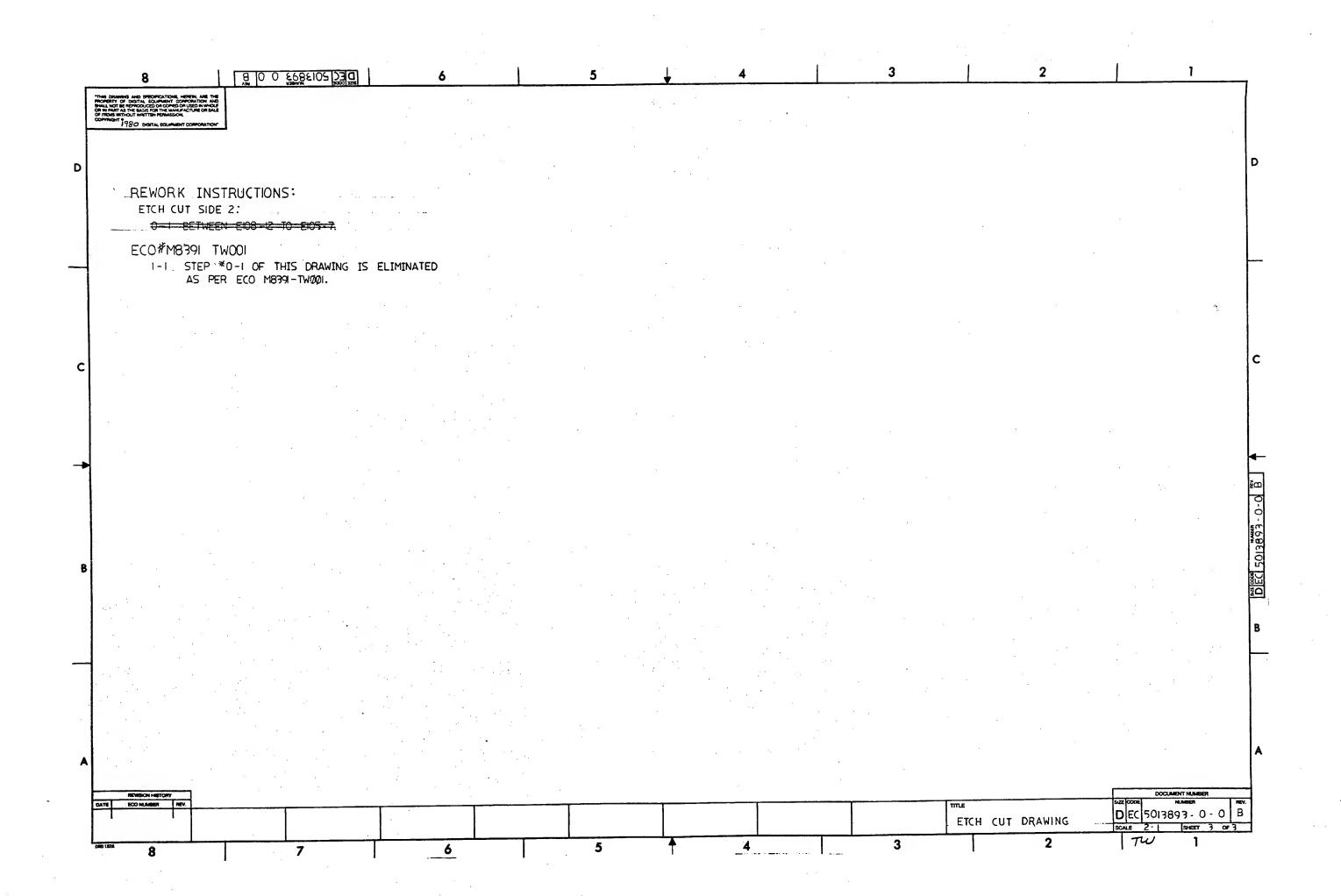




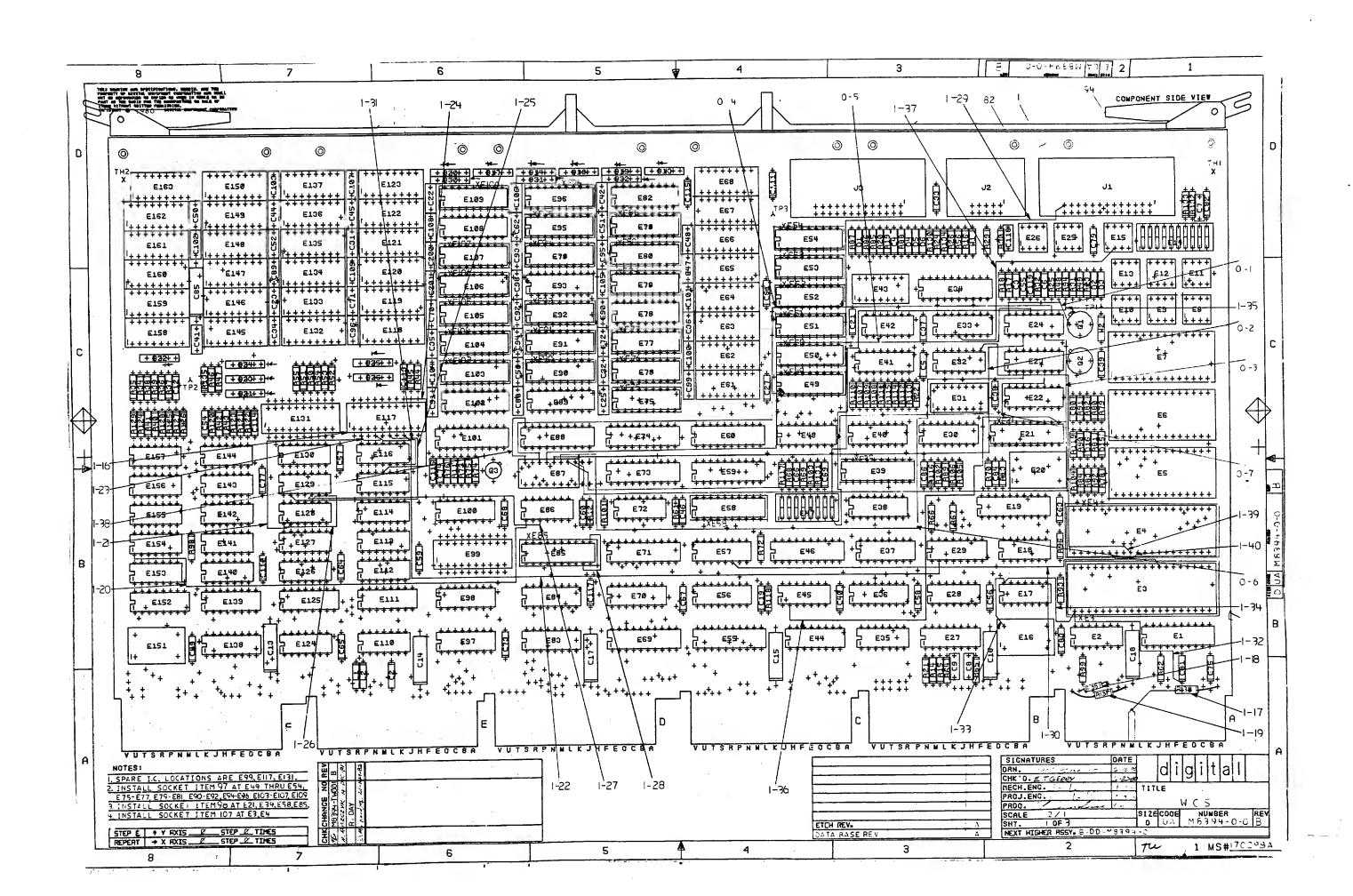


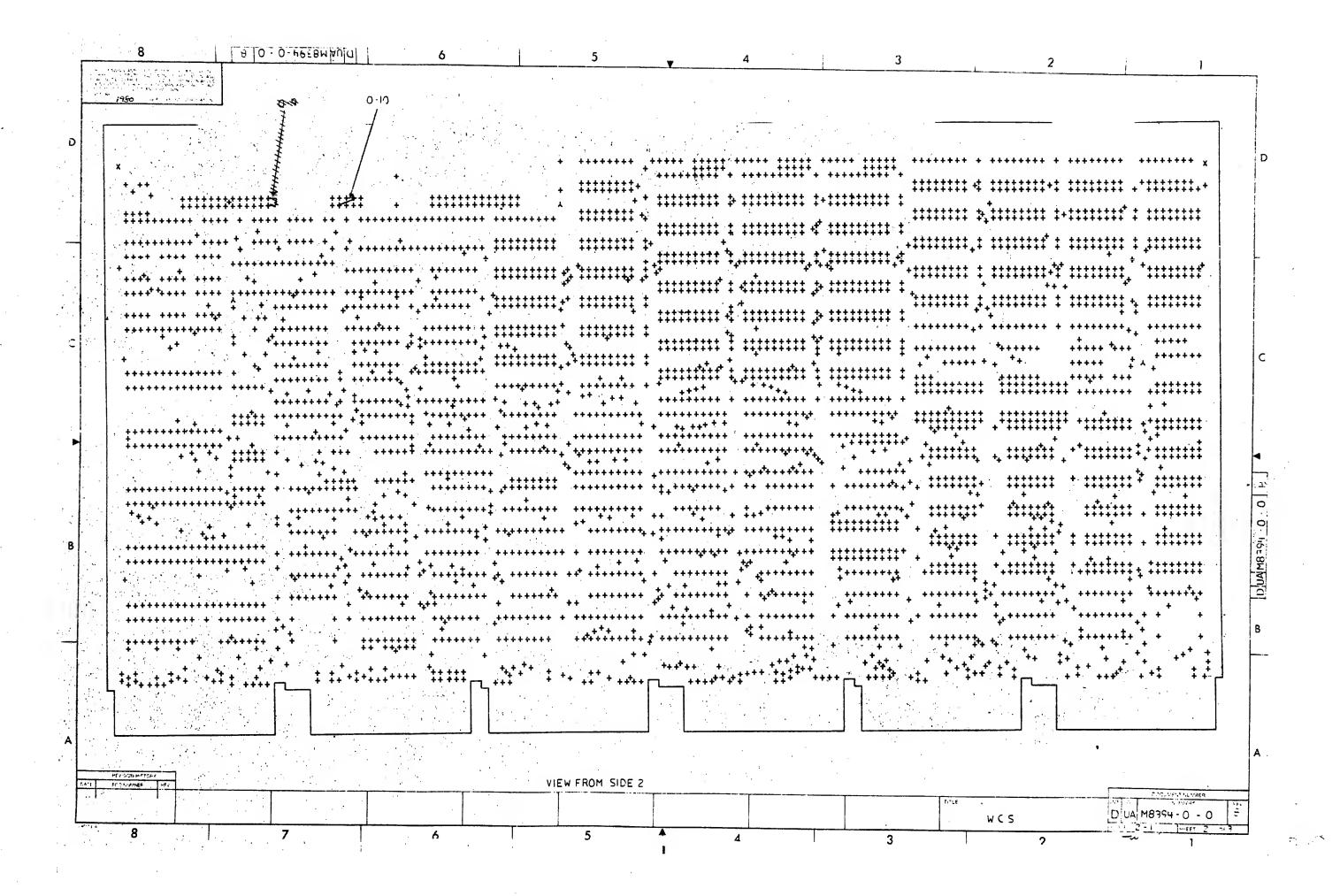


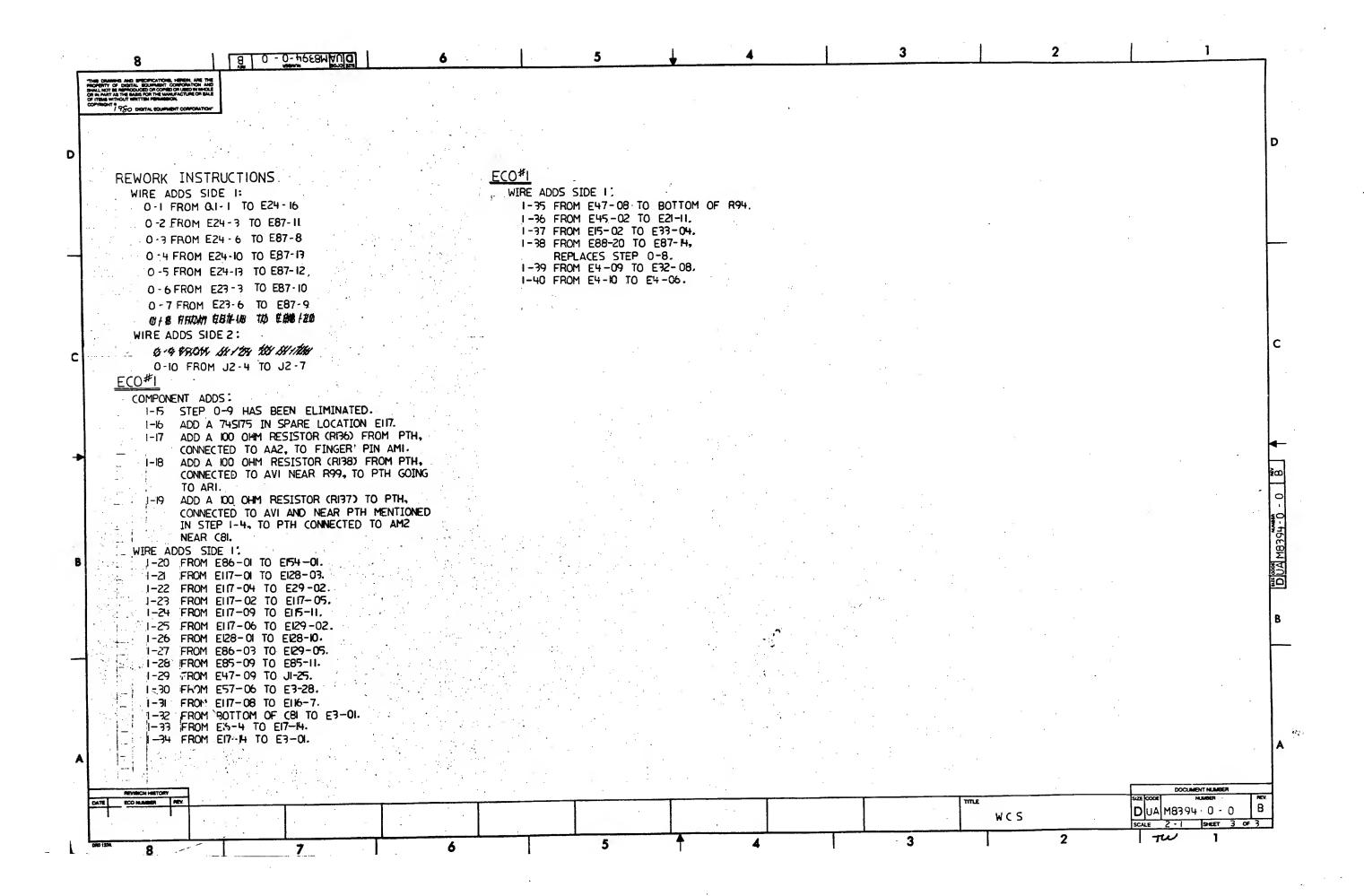




B DD size code 0-4688M BEV. NUMBER DRAWING NO. OF PART NO. DESCRIPTION **REVISIONS** MODULE REVISION AB B-DD-M8394-0 1 A B DRAWING DIRECTORY D-UA-M8394-0-0 3 AB UNIT ASSEMBLY 3 K-PL-M8394-0-DBP AB PARTS LIST 5014438 ETCH BOARD K-PC-M8394-0-DBC PC DATA PATH 5 D-MD-5014438-0-0 MECHANICAL DRAWINGS 3 D-EC-5014438-0-G A B ETCH CUT DRAWING K-CS-M8394-0-DBS DESIGN DATA BASE SUDS AB AB D-CS-M8394-0-WCSA 8085, A/D BUS, AND CONTROL D-CS-M8394-0-WCSB AB CONSOLE PANEL AND CPU CONTROL D-CS-M8394-0-WCSC CONSOLE INTERFACE AB D-CS-M8394-0-WCSE 8085 MEMORY AND CONTROL D-CS-M8394-0-WCSF A B BASIC CLOCK GENERATOR AB D-CS-M8394-0-WCSH CONTROL STORE DATA (00:15) AB D-CS-M8394-0-WCSJ CONTROL STORE DATA (16:23) AB D-CS-M8394-0-WCSK MEMORY REFRESH CONTROL AB D-CS-M8394-0-WCSL XCS WRITE AND SELECT CONTROL A B D-CS-M8394-0-WCSM OPTIONAL CONTROL STORE - HIGH AB D-CS-M8394-0-WCSN OPTIONAL CONTROL STORE - LOW D-CS-M8394-0-WCSP MODEM INTERFACE AND 8085 RAM A B D-CS-M8394-0-WCSR FILTER CAPACITORS Α D-BD-M8394-0-0 WCS BLOCK DIAGRAM D-TD-M8394-0-0 WCS IMING DIAGRAM D-GI -M8394-0-0 **ROM & PAL LISTINGS NOTES:** REV 00 REVISIONS CHG NO. \*CONTROL SOURCE IS THE SUDS DATA BASE TW001 NO CONTROLLED PAPER ORIGINALS EXIST DATE 12-81 USED ON OPTION/MODEL DRN. "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-J. CASEY 8-26-80 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D WCS NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN J. CASEY 8-26-80 PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF B DD ENG. NUMBER REV. ITEMS WITHOUT WRITTEN PERMISSION. S. LACHEY 9-19-80 M8394-0 C COPYRIGHT® 1981 DIGITAL EQUIPMENT CORPORATION PROD. C. CONSIDINE 10-8-80 SHEET 1 OF 1 semelarita e incluidade da casa de servicio e en el esperimiento de la composición del composición de la composición de la composición del composición de la composición del composición de la composición de la composición del composición del composición del composición del composición del composición







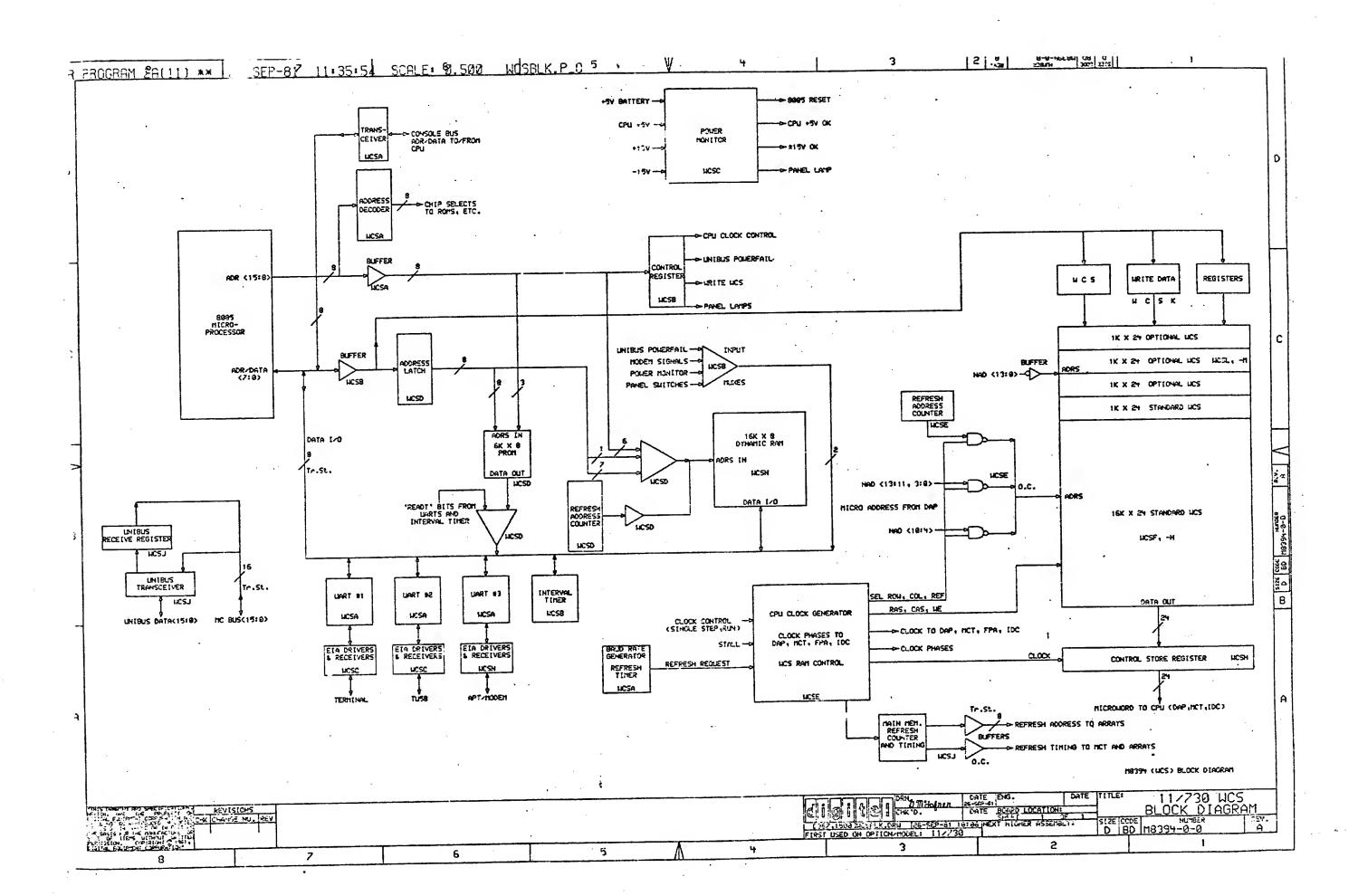
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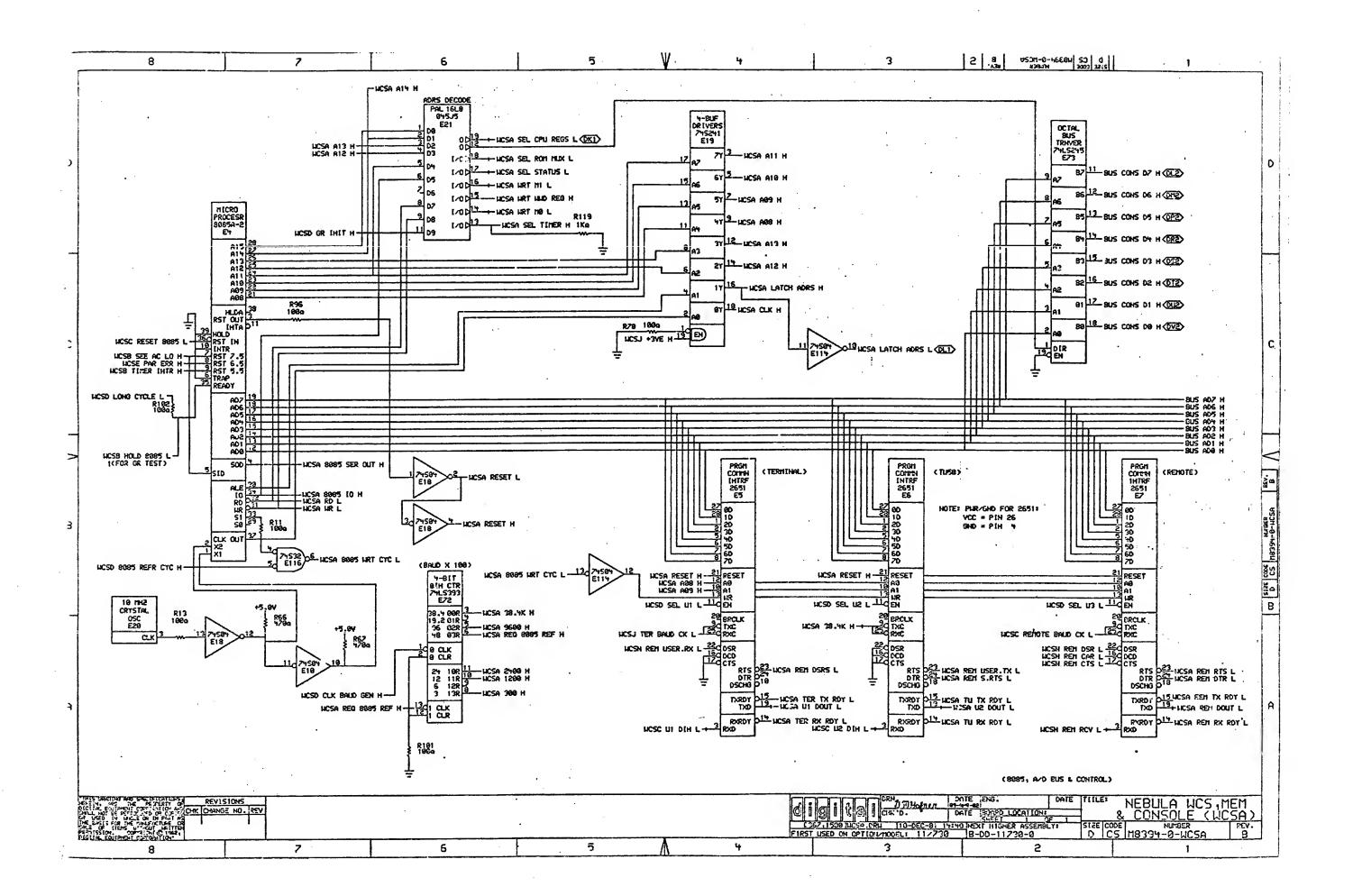
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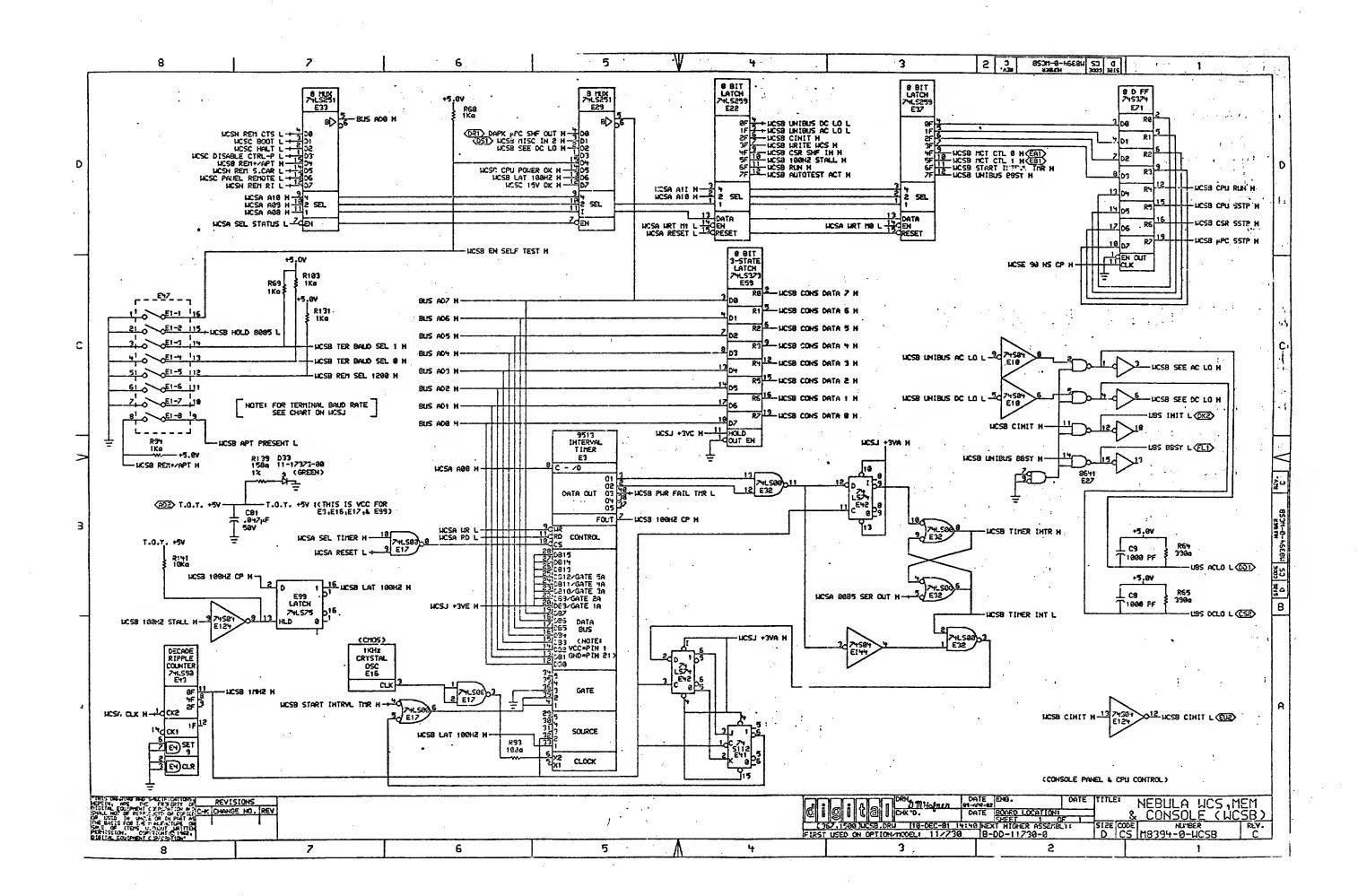
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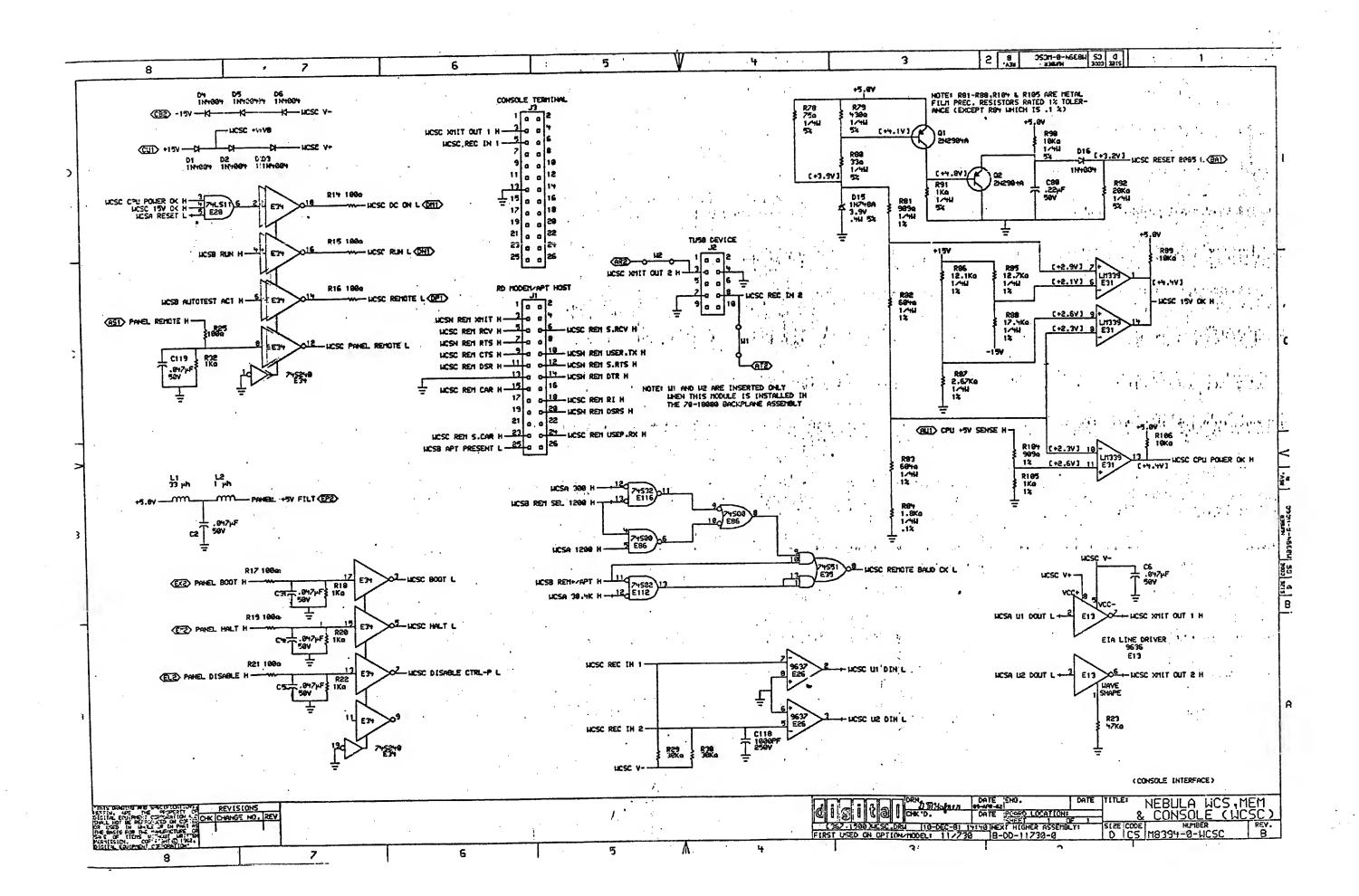
AUTOMATED BY PRILST, 3N(43)	PARTS LIST			SHEET A3 OF A3
FEND TABLE BARRENS STREET BEAR SHIPP	NEGAR TANTAN		VARIATIO	
LINE ITEM DOCUMENT NUMBER PART NUMBE	DESCRIPTION	00		REFERENCE DESIGNATOR
65 52 1912808=00	LS11 AND GATE-TRIPLE 3IN	1		E28
66 53 1912824=0Ø	LS74 FF-D DUAL, EDGE TRTGG	1		E42
67 54 1912830=00	LS90 COUNTER, ASYNCH UP, DE	1		E43
68 55 1912860-00	LS259 LATCH 8BIT	2	0.0	E22,E37
69 56 1913340=00	74832 OR GATE-QUAD 2IN	1	•	E116
70 57 1913462-00	745240 OCTAL BUFFER, INVERTI	2		E46,E34
71 58 1913493=00	74S241 OCTAL BUFFER, TRI-STA	1	,	E19
72 59 1913670=00	745373 LATCH BBIT TRASP TR	3	:	E55,E60,E69
73 60 1913671-00	748374 FF-D OCTAL TRISTATE	1		E71
74 61 * 1913777=00	L3240 DRIVER, LINE, OCTAL, T	1		<b>E1</b>
75 62 1913887-00	748258 MUX 1 OF 2(QUAD)TPI	2		E40,E48
76 63 1914214=00	L8374 FF-D OCTAL EDGE TRIG	3	1000	E74,E88,E101
77 64 1914451=90	74LS393 COUNTER, BINARY, 4BIT	4		E2,E45,E72,E154
78 65 1915019=00	74538 NAND BUFFER-QUAD 2IN	7		E126,E141-E143,E153,E155,E156
79 66 1915218=00	L5245 TRANSCEIVER, BUS, OCT	. 1		E73
80 67 1915219=00	LS373 FF-D OCTAL-TRANSPARE	1		E59
81 68 1915415=AB	9636 DRIVER, DUAL, EIA RS-	4		E13, E9, E10, E12
82 69 1915416=00	9637 RECEIVER, DUAL, RS=42	5		E8,E11,E15,E25,E26
63 70 2115103-00	RECEIVER-PCI	. 3		E5-E7
84 71 2116957=02	1K MOS RAM 70NS 1	6		E78, E82, E89, E93, E102, E108
85 72 2116962-00	UP,8-BTT NMOS .8MICRO SEC. INSTR	1		E4
86 73 2117247=02	2118-1	8		E61-E68
87 74 2117247=04	2118 PAM, 16KX1, DYNAMIC, 10	24	*	E118-E123, E132-E137, E145-E150,
00 75	ASAS AVENCY MINING CONTRA		CONT	
88 75 2117497-00	9513 SYSTEM TIMING CONTRO	1		E3
89 77 23002K5=00	K5-01	1		E85
90 78 23012K4=00	K4-01 PAL ARRAY K3-01 PAL, REG, CONT	1		E39
91 79 23024K3=00		1		E58
92 80 23045J5-00 93 81 7010918-01	J5-01 PAL, LOGIC, CONT	15	ž.	E21
93 81 7010918-01 94 82 9000024-01	EYELET, ROLLED FLANGE, .121 OD X	12		D13.D14.D17-D26.D30-D32
95 83 9009149=00	PIN, STAKING, P.C. BOARD, .025 X	12		TP1-TP3
96 84 9009185-00	TUMPER, WIRE, INSULATED, BLACK B	. 2		W1, W2
97 100 130005=04	R NETHORK 15-470 5.0 % 16PIN	- 4	J. 8 1	E87
98 102 23034F2=00	F2-01	•		E54
99 103 23035F2-00	22-04			E53
100 104 23036F2-00	F2-01	1	1	E51
101 105 2303772-08	F2-01			E49

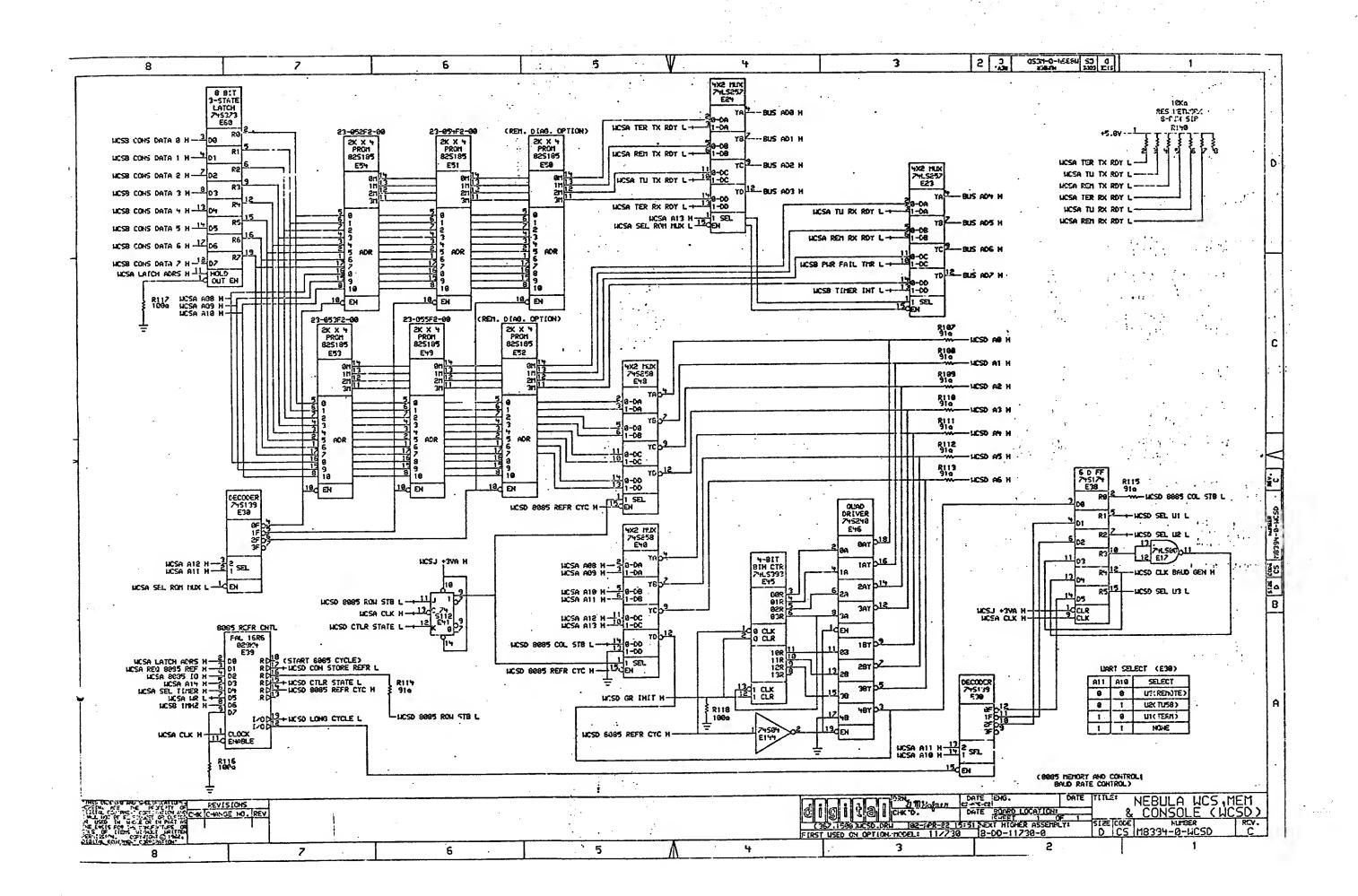
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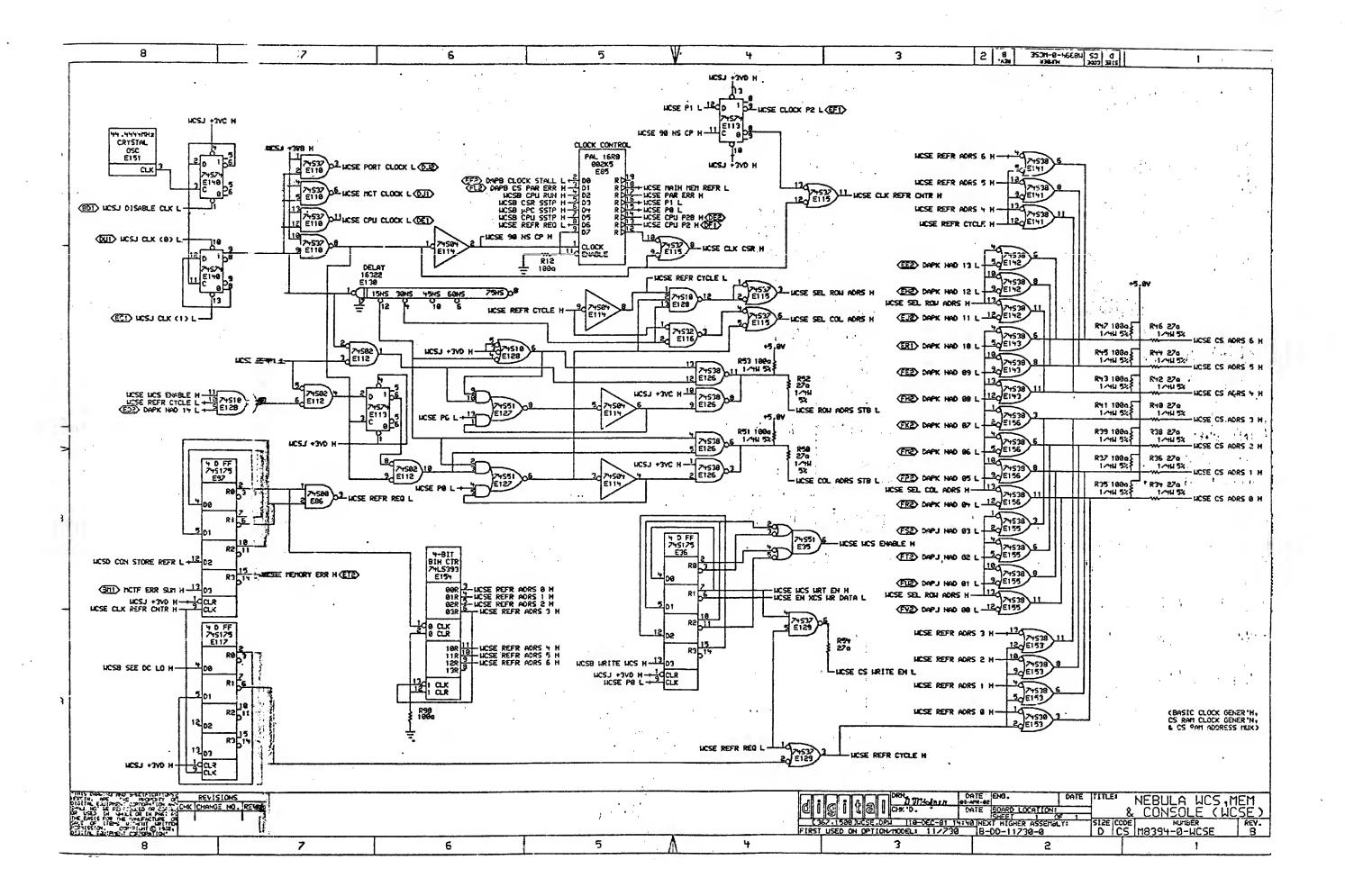


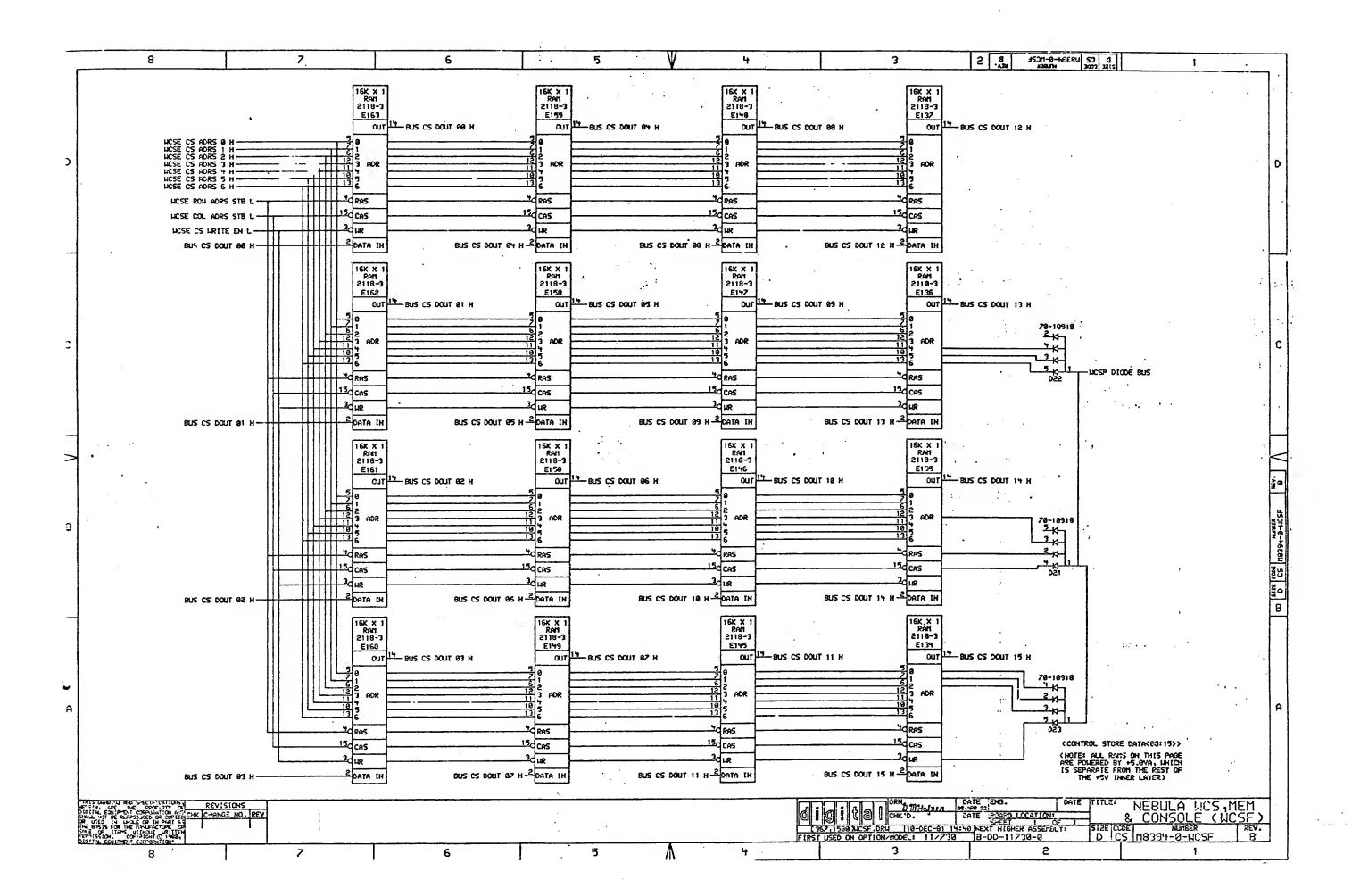


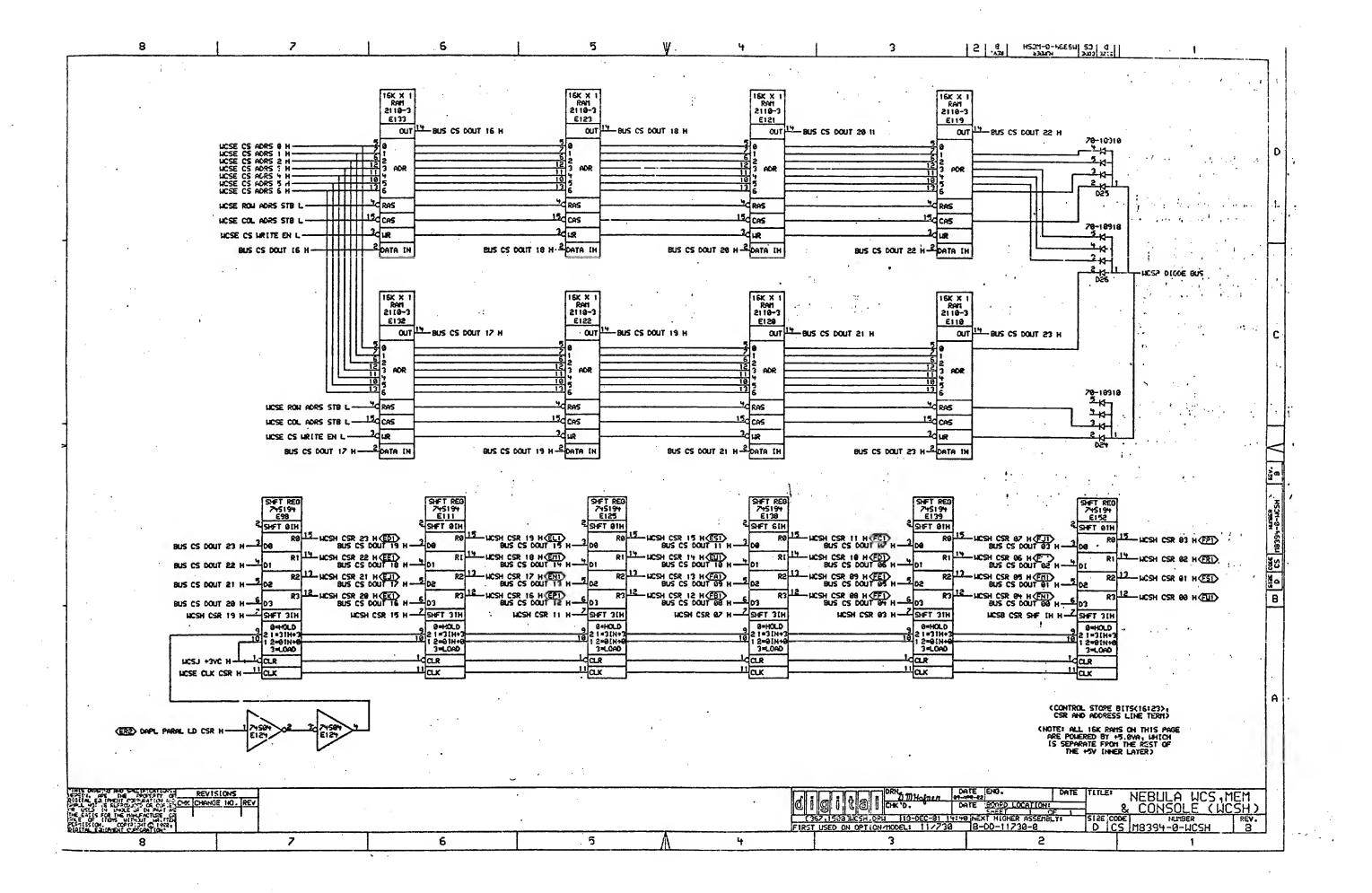


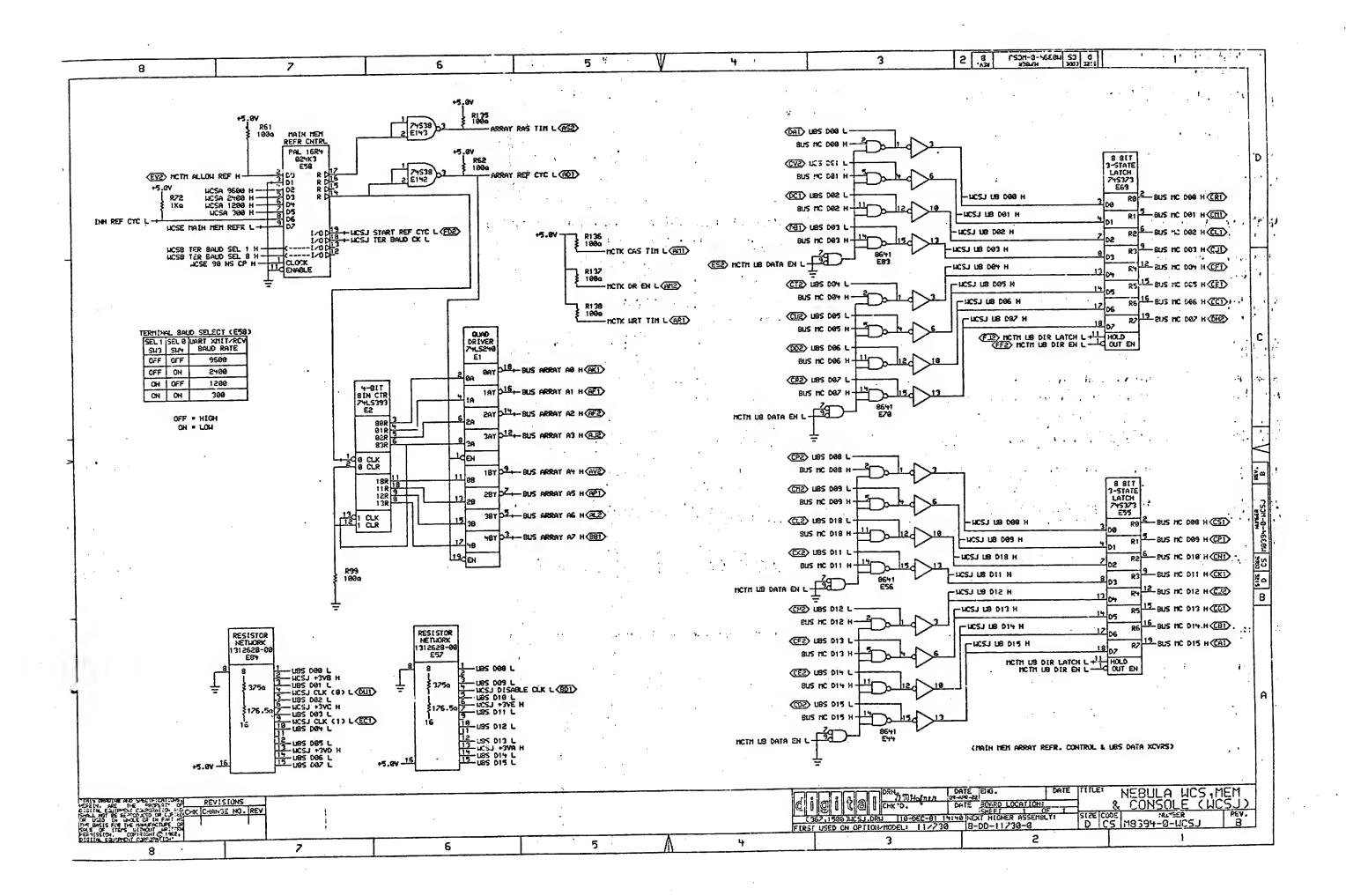


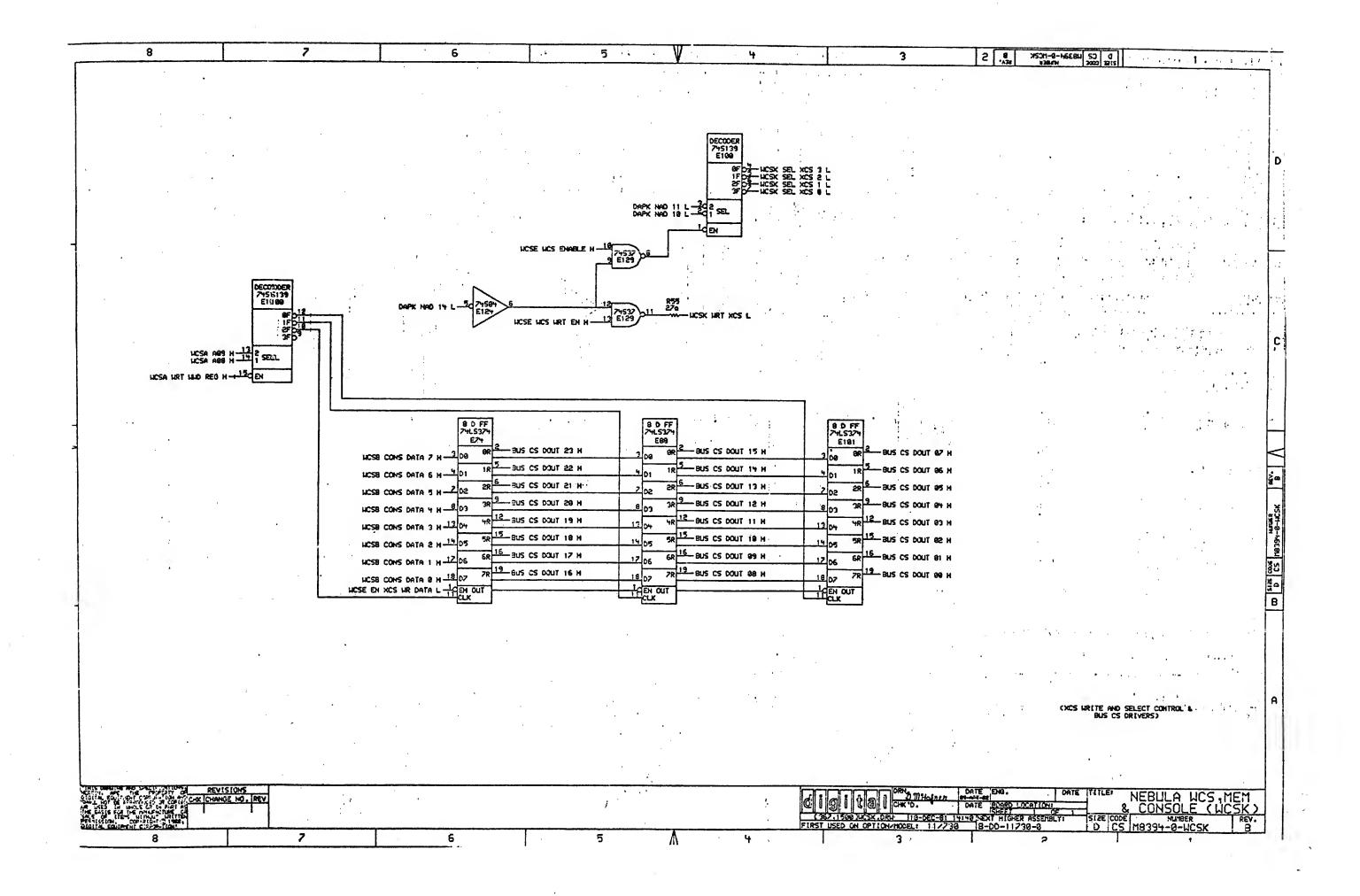


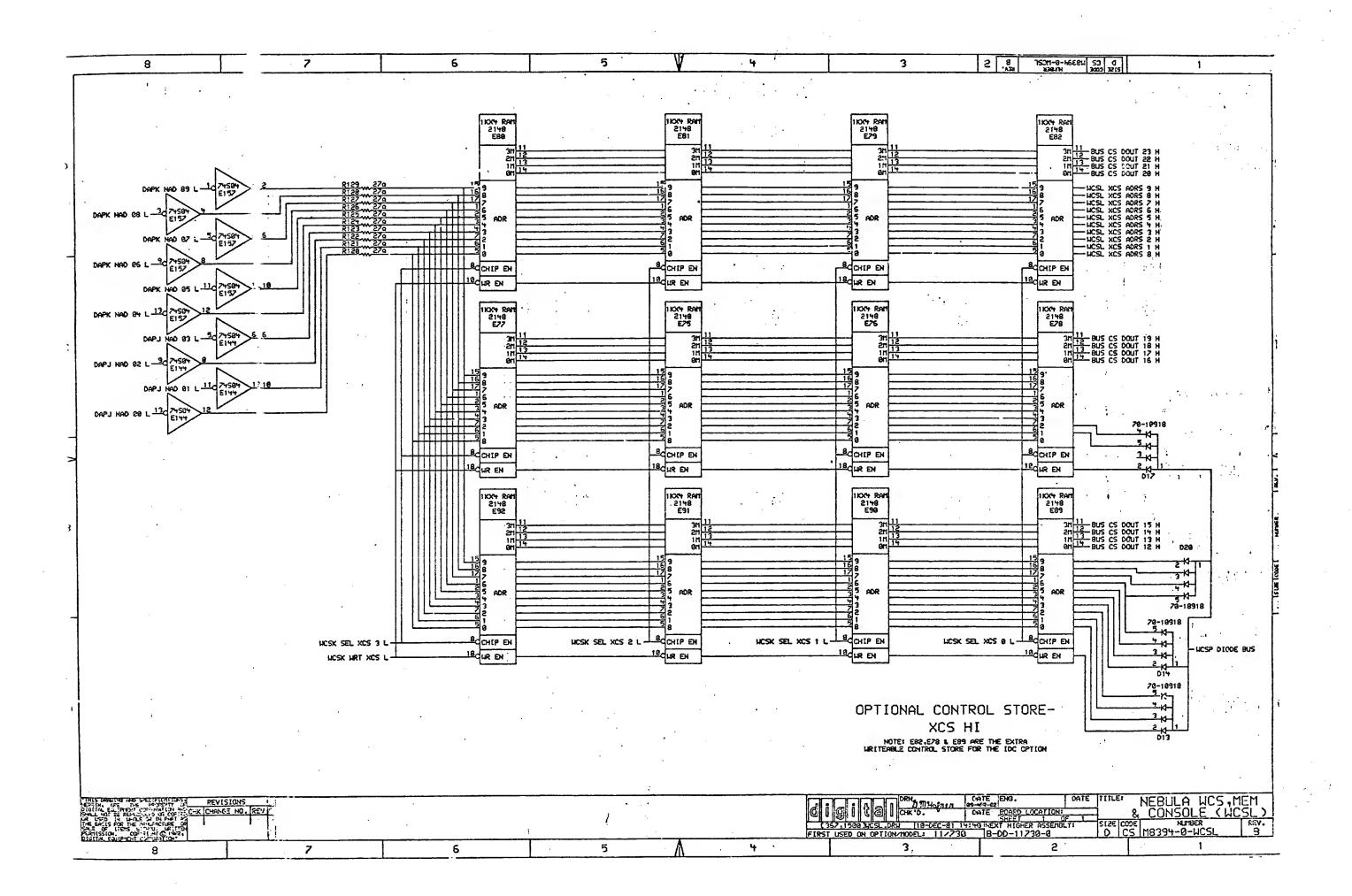


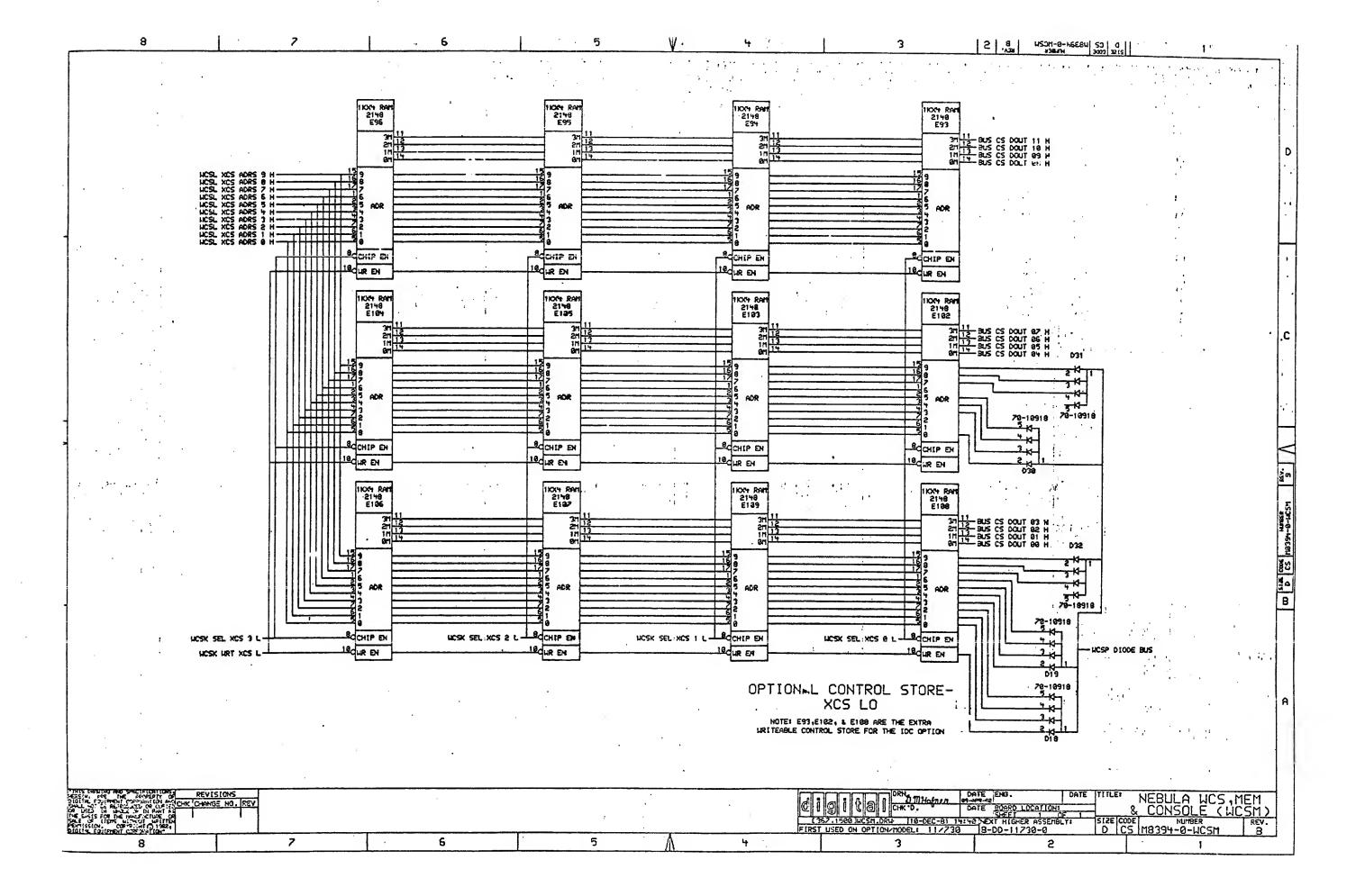


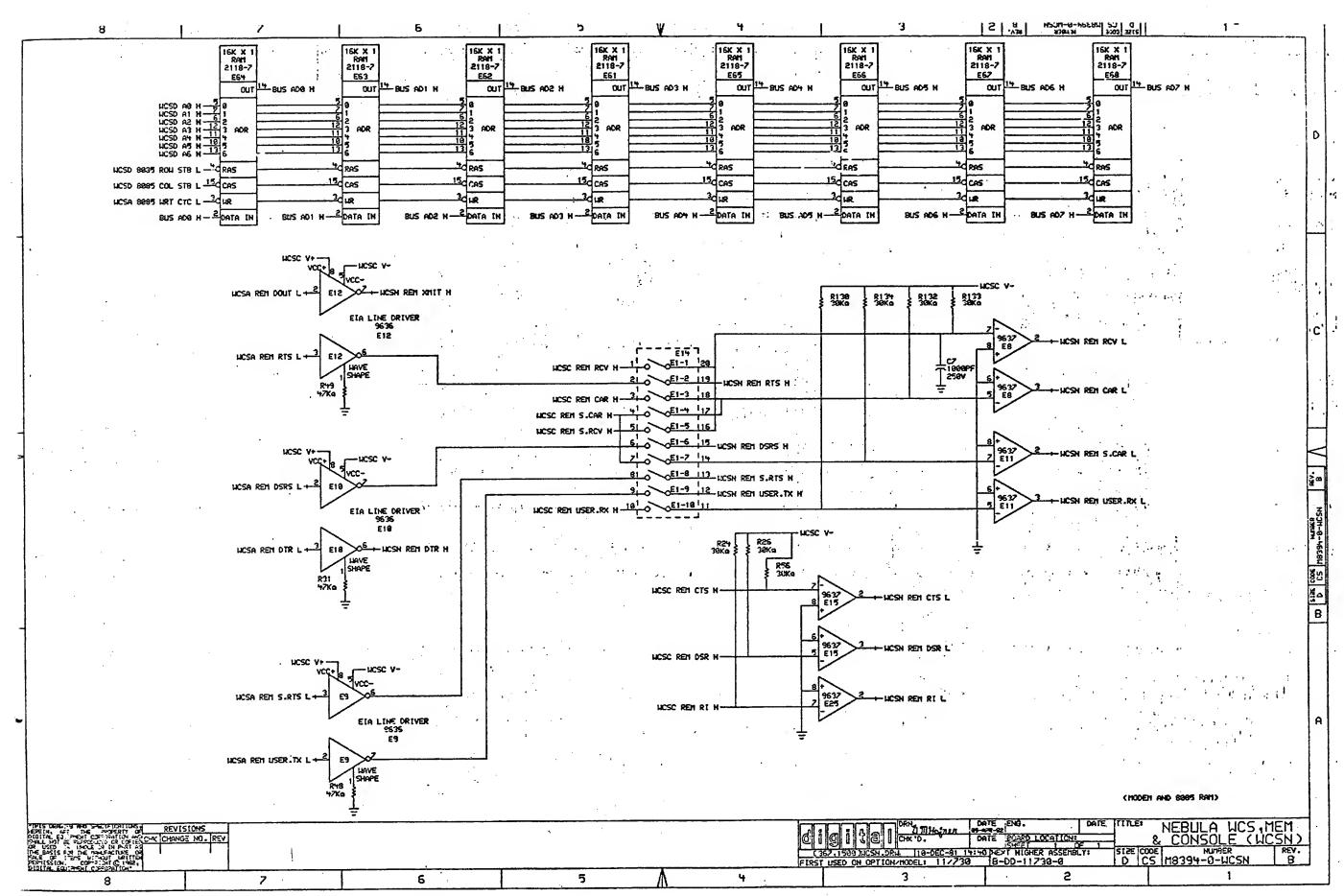


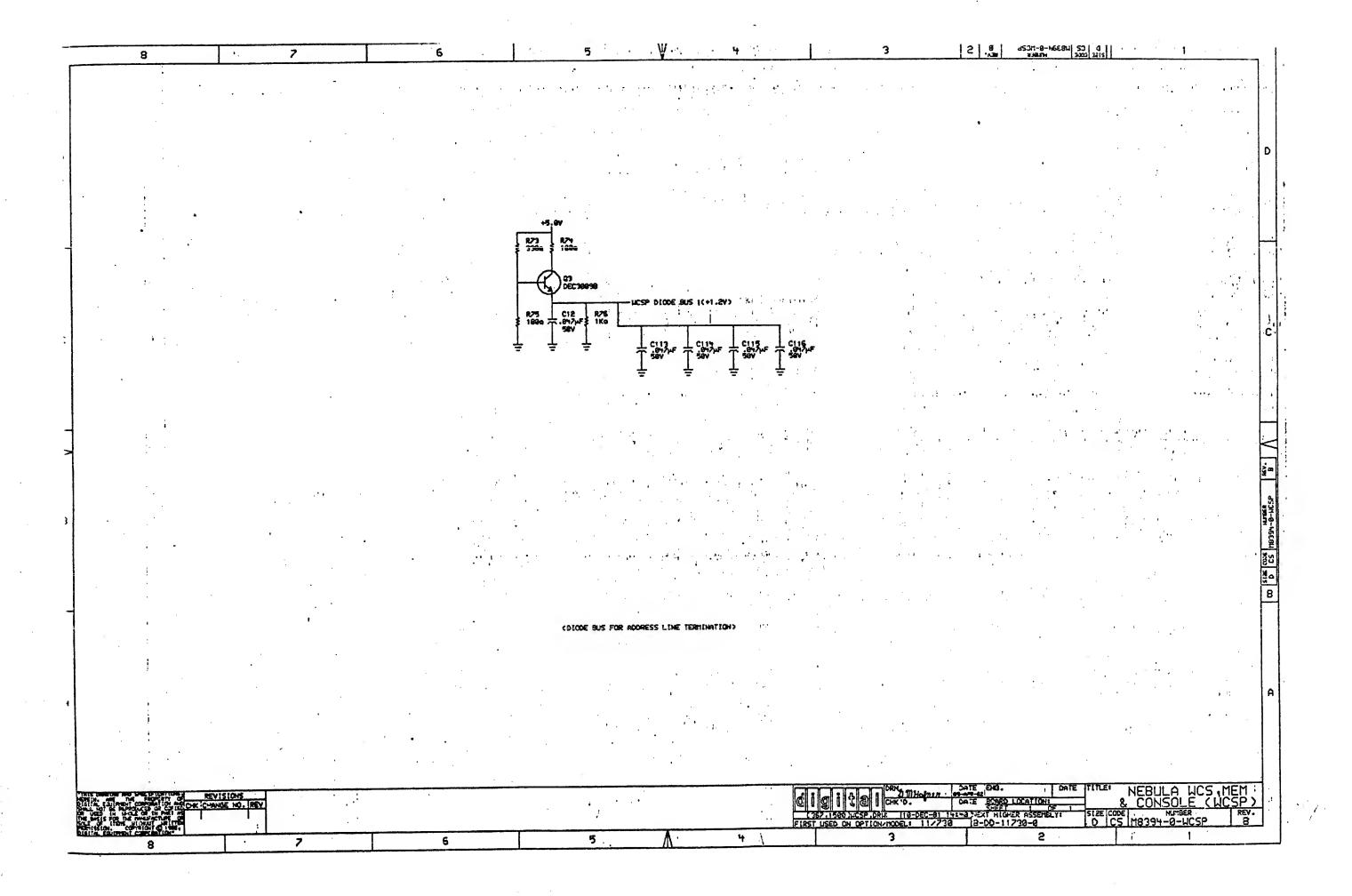


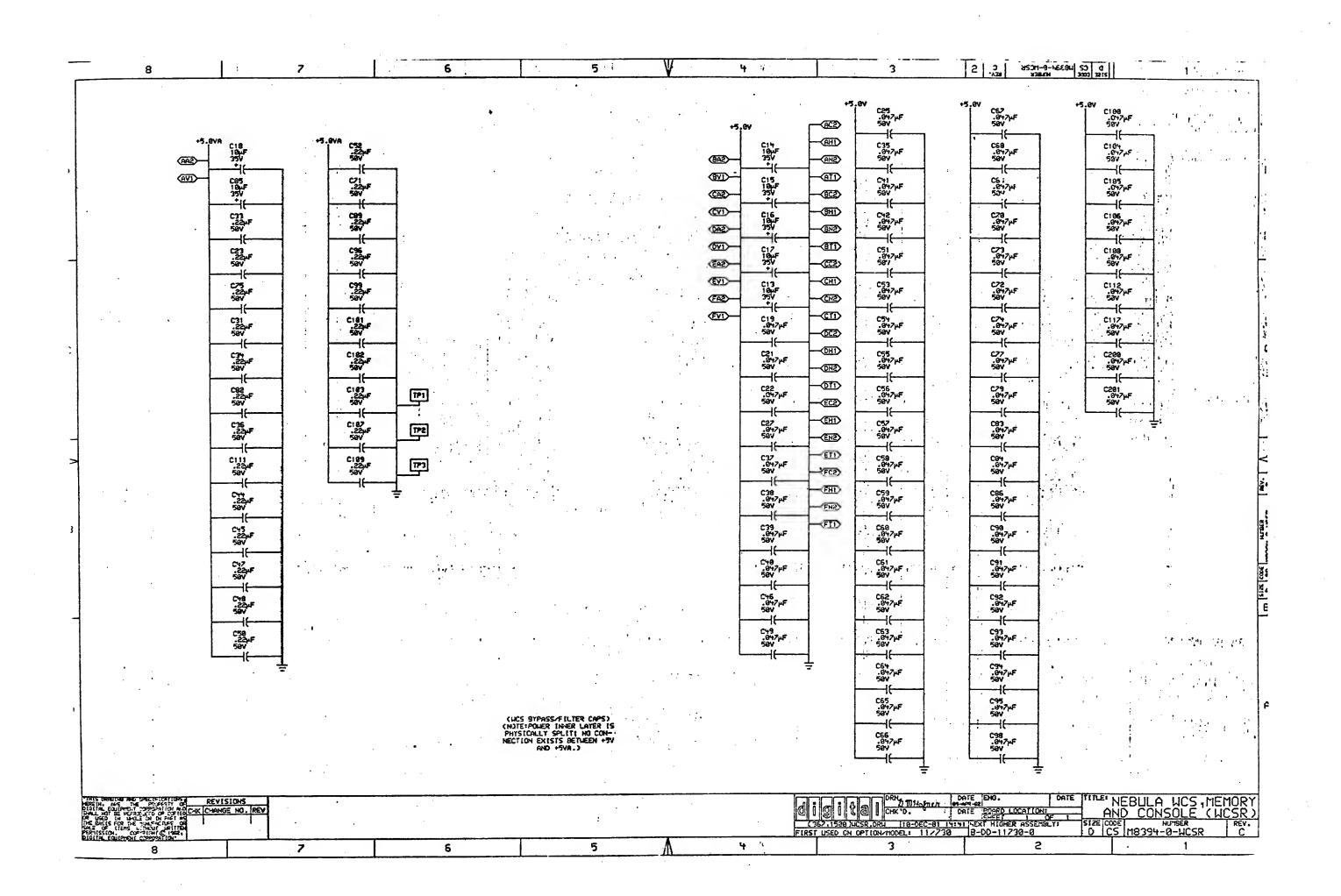








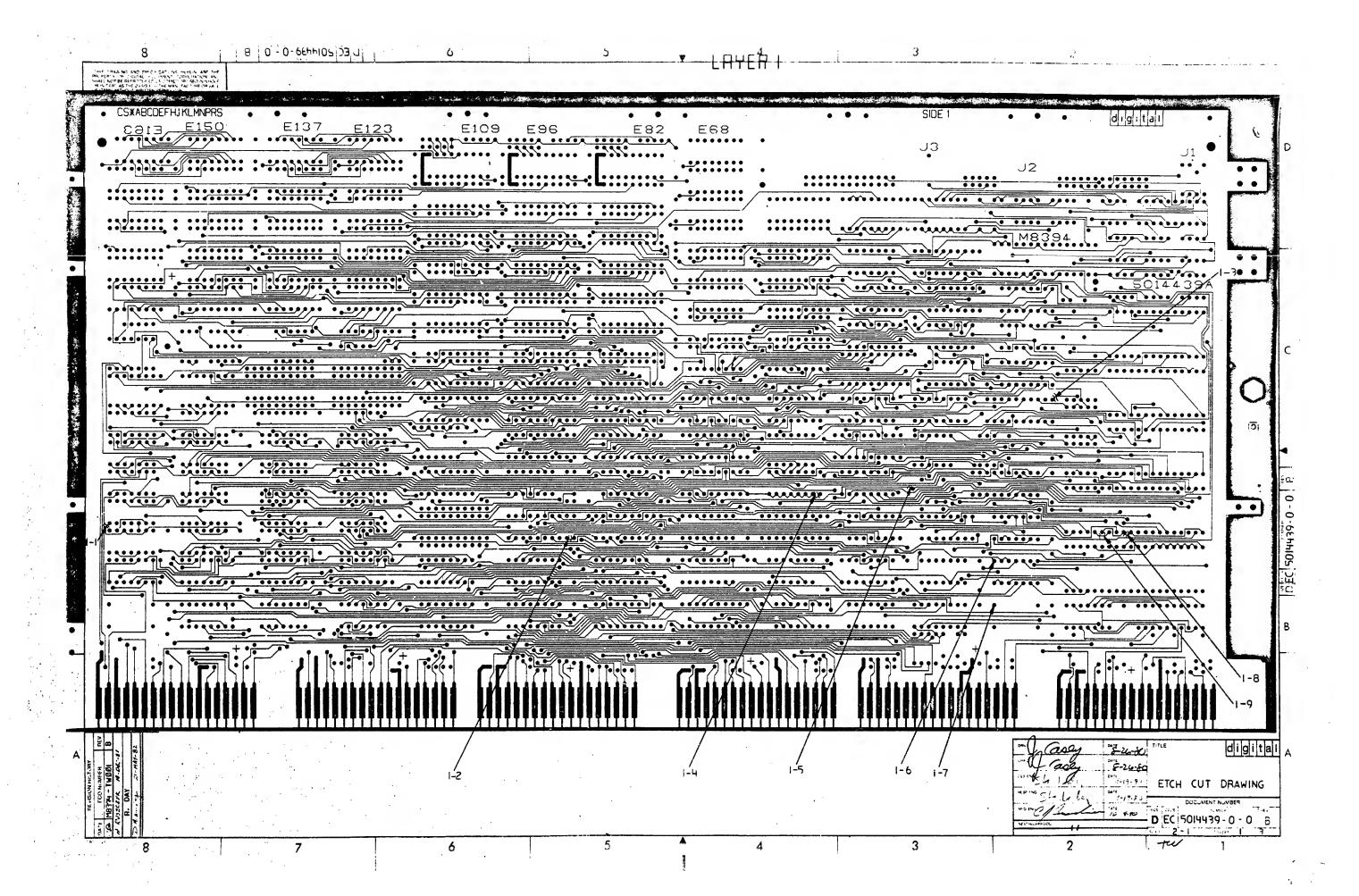


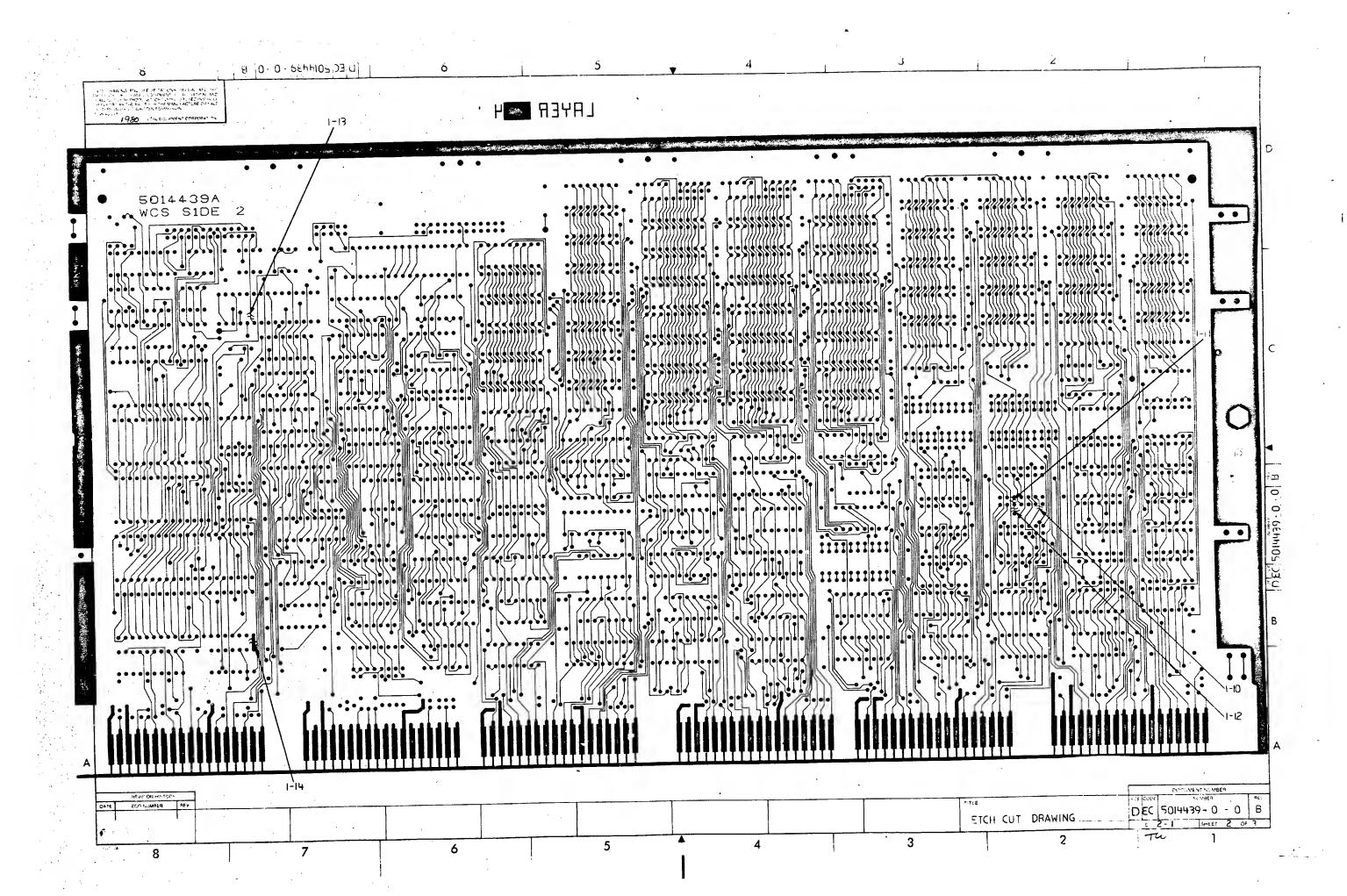


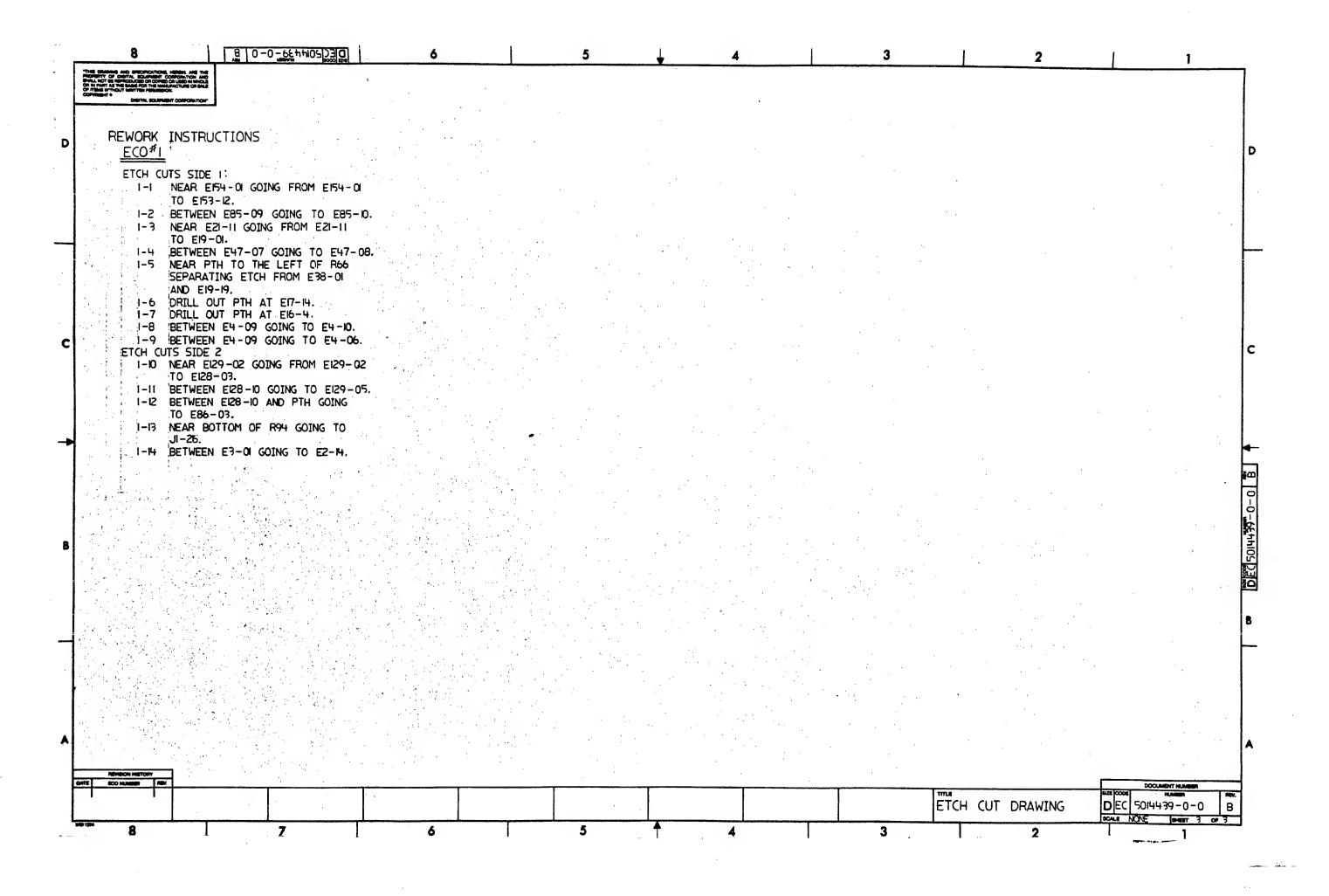
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	PART NUMBER: 23-045J5-	·@	•	PART NUMBER: 23-024K3-0	99		PART NUMBER: 23-884K4	-89		
•	DEVICE TYPE: PALIBLE			DEVICE TYPE: PALIERY			DEVICE TYPE: PALIERS	•		
	SCHEMATIC SHEET #10-CS	;-RESIGN-0-LICSA		SCHEMATIC SHEET #10-CS-	-11839 <del>4-0-U</del> CSJ		SCHEMATIC SHEET #: D-C	S-118394-0-HCSD	•	
•	LOCATION/DESCRIPTION: .	EZT ADDRESS DECODE	£1	LOCATION/DESCRIPTIONS E	58/ MEMORY RESPECT CONTRO	AND SEQUENCER		E394 HICRO PROCESSOR DYNA	MIC ROM CONTROLLER	•
	1- A7	8=-R0	15- URT.UND.RED	ASSIGNED PIN MUMBER!			ASSIGNED PIN MUMBER:		THE TOTAL CONTINUE CERT	
	2= A6 3- A5	9=/LIR 18- 080040	15=/URITE.MI 17-/SEL.STATUS	1 = REGISTER.CLK 2 - ALLOW.REFR.CYC	8=/INHIBIT.REFRESH 9=/REFR.REGUEST	15= REFR.PENDING	1= CLOCK	8= HC	15= STATE	
	4= A4 5- A3	11=/TSE 12= DIR	18=/SEL_ROM.HUX 19-/SEL_CPU.REOS	3= PRELOFD T- 9600.EAUD	10= GROUND 11- REG.OUT.EN	16STATE 17= RAS	- C- ALE 3= REQUEST.REFR	3- RÉSET 18- GROUND	15 RAS 17= REFRESH.DONE	
	6= 10 7= NC	13= SEL.TIMER 14=-ARITE.HB	29= YCC	5= 2400.BAUD 6= 1200.BAUD	12= BALD.SEL.0 13- BALD.SEL.1	18- TERM.BAUD 19-/ST T.REFR.CYC	7- IQ 5- A14	11- OUT.EN 12-CART.CHIP.SEL	19-/START .8691.CYC	
				7= 308.BALD	14= REFR.CYCLE	29- 4	6- HC 7- HC	19-WART.ENA 14- REFRESH.CYC	29- VCC	
	EBUATIONS						•	,		
•	IFCTSE) SEL.CPU.REG.		<b>&gt;</b>	EQUATIONS:			EDUATIONS:			•
	+IOMAZ#LR		•	IFTYCC1 START.REFR.	CYC:=REFR.PENDING#ALLOW.R	FR.CTC	START .3085 .CYC1 =A	Œ		
	IFITSE I SEL .ROM .HU' +IOW/AP#/AG##.	75= /10=/A7=/A6=/95=R0 (5==FR1=/A3=R9		+REFR.CYCLE		•		#START.0005.CYC#A14	•	•
•	IFITSE) SEL.STATUS:		•	*REFR.FENDING	**REFR .CYCLE#/STATE*ALLOH	REFR.CYC=VFRELDAD	RASI = RASIREFRESH +RASISTATE +START ASSE			
	IPITSES HRITE.HI- 1	15=r47=r46=45=41=4R		+PRELOAD*ALLO	I.REFR.CTC	•	+START.0005. +RESET	CYD=/RAS#/IO#A11	•	•
		**************************************	R	REFR.PENDING:=REFR.	REQUEST#/REFR.PENDING#/REJ REFRESH#/PRELOAD	R.CYCLE	STATE: =/START.80	85.CYC		
		IDENTWASIASIVATION		+REFR.PENDING* +PRELOAD#INHIE	VRAS=VPRELDAD		+AIT			
	IFLTSET /SEL.TIMER	;b= 4'80		REFR CYCLE REFR.	PENDINGS/RASS/PRFLOAD		REFRESH.CYC: *STA	RT.9895.CYC		,
	+A7 +A5			+/REFR.CYCLEW/ +PRELOAD=REFR.	STATE > PRELOAD		+RAS*STATE	.CTC C=/REGLEST.REFR		
	4/A4 **A3			/RAS! REFR . PEHDING	INSTATEMPRELOAD		+/REFRESH.CY	C=/REGREST.REFR C=REFRESH.DONE C=/RAS=ALE=/STATE		
	IPITSEI /PIRI- 10#-	######################################		+/REFR.CYCLE=/ +PRELOAD=BAUD.	PRELOAD	•	+UART.ENA +RESET	O-MORRESCAIRIE		
			•	IFTVCCI -TERM.BAUD.	BALID .SEL .1 =- BALD .SEL .0=	66.BALD	REFRESH DONE R	EQUEST.RSFR		
				+/BAUD.SEL.1=/B +CAUP.5EL.1=/B	AUD.SEL.0*1204.8AUD		+/REFRESH.CO	NE */ REFRESH.CTC		
				+BAUD.SEL.1#BA	LID.SEL .0×9E08.BALD			:=START.8085.CYC#A14		
							IFTVCCJUART.CHIP.	SELI-START.8885.CYC=10±A14	L/RAS	
								965 .CYC=10=A1 \##/RA5		
							+/RAS=STATE			
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ाता करू	CHK CHANGE HD. REV	35.					SE CHK D.	DATE BRAND LOCATION:	AND PAI	S ROM LISTINGS
5 37 M 61	រូបគ			•		OSKIGLCSBI.	CHK 10.  TZFC 1185, 1509 3110-0FC-81 10:  ON OPTION-HODEL: 11/730	23 NEXT HIGHER ASSENSETS	SIZE CODE NU	18ER REV.
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			,	, –	(15	•		2	I	

6 5 8 PART HLHBER: 23-ROCKS-00 DEVICE TYPE: PALIERS SCHEMATIC SHEET #: D-CS-H8391-3-HCSE LOCATION/DESCRIPTION ERS/ CLOCK CONTROL AND SINGLE STEP ASSIGNED PIN NUMBER: 1= REGISTER.CLOOK.H 2=/STALL 3= CSFE 4= CPU.RUN 5= CSR.STEP 6= UPC.STEP 7= CPU.STEP 8=/REFR.RES 9= RESET 18= \$ROUND 11= RES.OUT.EN.L 12= CLK.CSR 13= CLK.CPU 14= CLK.UPC 15=/P0 16=/P1 17= PAR.ERR 19=/BIN.MEH.REFR.REQ 19=/ABIT 20= VCC EQUATIONS: HAIT:= CSR.STEPHOLK.CSR
+HAITHCSR.STEP
+UPC.STEPHOLK.UPC
+HAITHUPC.STEP
+CPU.STEPHOLK.UPU
+HAITHCPL.STEP
+RESET MAIN.MEM.REFR.RED: = REFR.REGM/POM/P1 /PAR.ERR: = POW/PAR.ERR +PIW/PAR.ERR +/POW/PIW/CSPE +RESET P01= /P0=/P1 +RESET -CLK.UPC:= /PI +STALL=CPU.RIN +STALL=CPU.STEP +REFR.RCD +/CPU.RIN=LPC.STEP=/CPU.STEP +/CPU.RIN=LBIT +RESET /CLK.CPUs= /P1 +5TALL +REFR.RED +/CPU.RLH=/CPU.STEP +/CPU.RLH=/CPU.STEP +NESET CLK.CSR:= /PI
+STALL=CPU.RIN
+STALL=CPU.STEP
+REFR.RED
+/CPU.RIN=CSR.STEP=/CPU.STEP
+/CPU.RIN=LAIT
+RESET 23-002K5-09 NCS ROM AND PAL LISTINGS SIZE CODE NUMBER D GL M3394-0-0 2 6 7 8

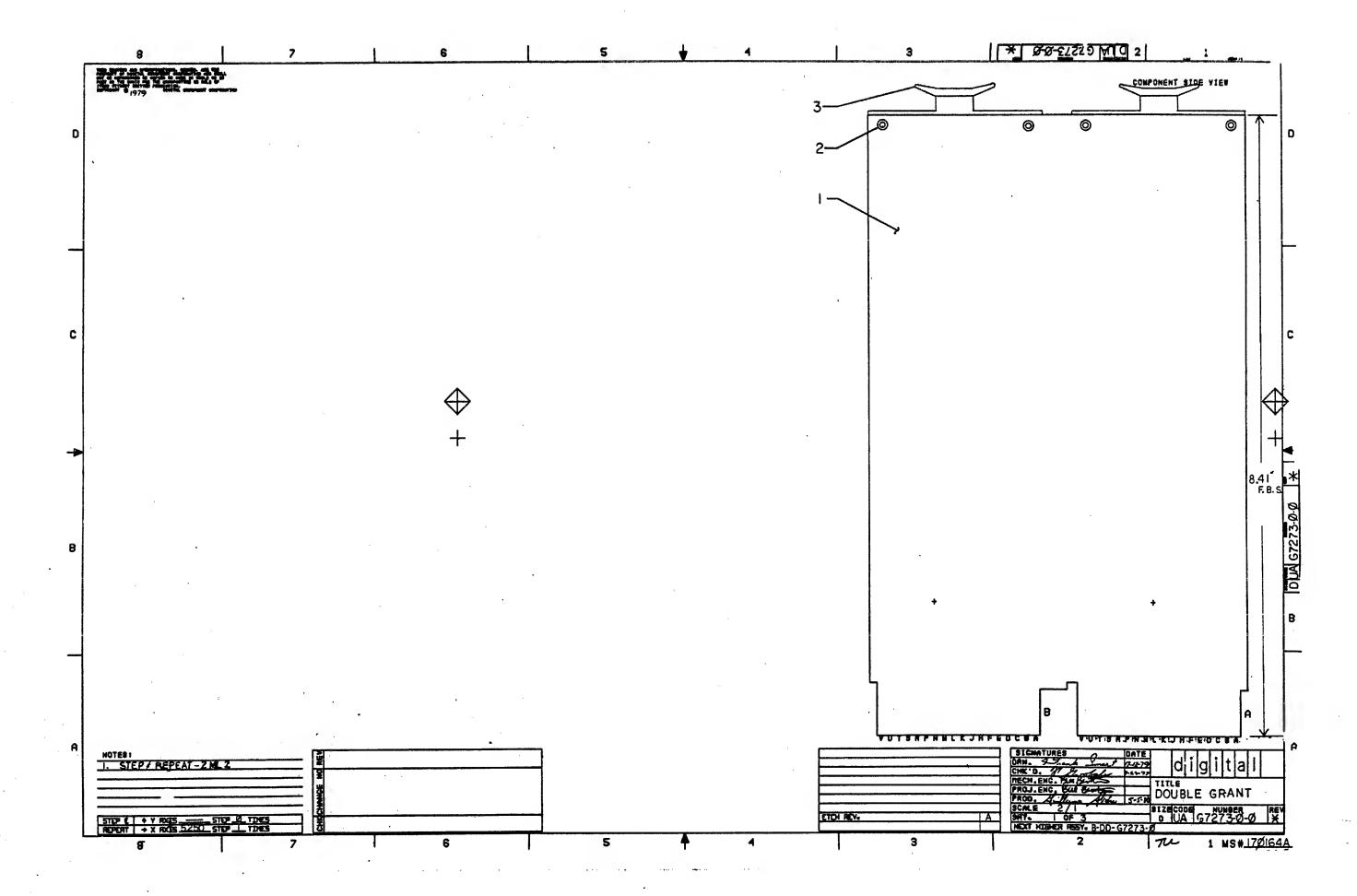
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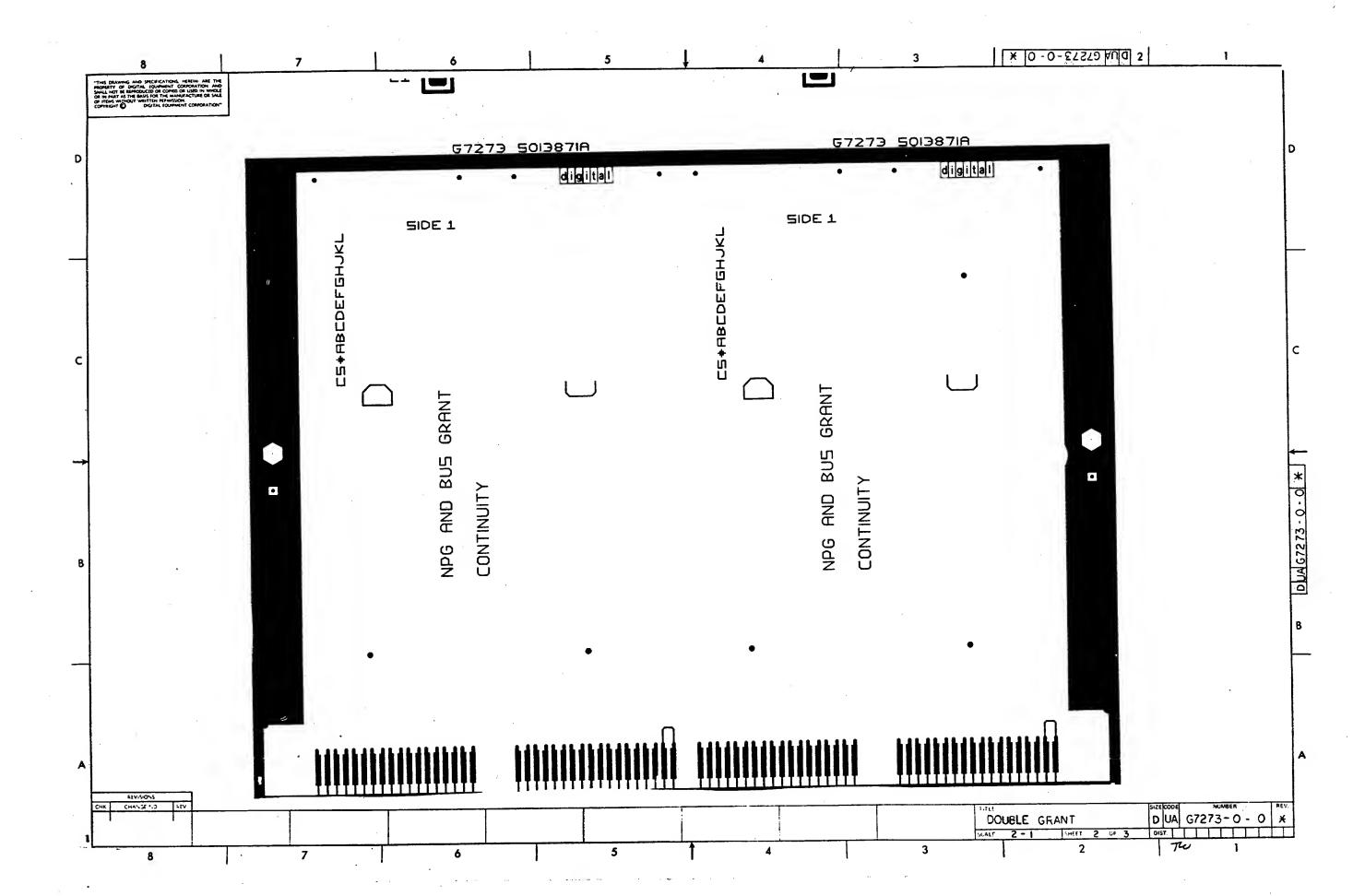


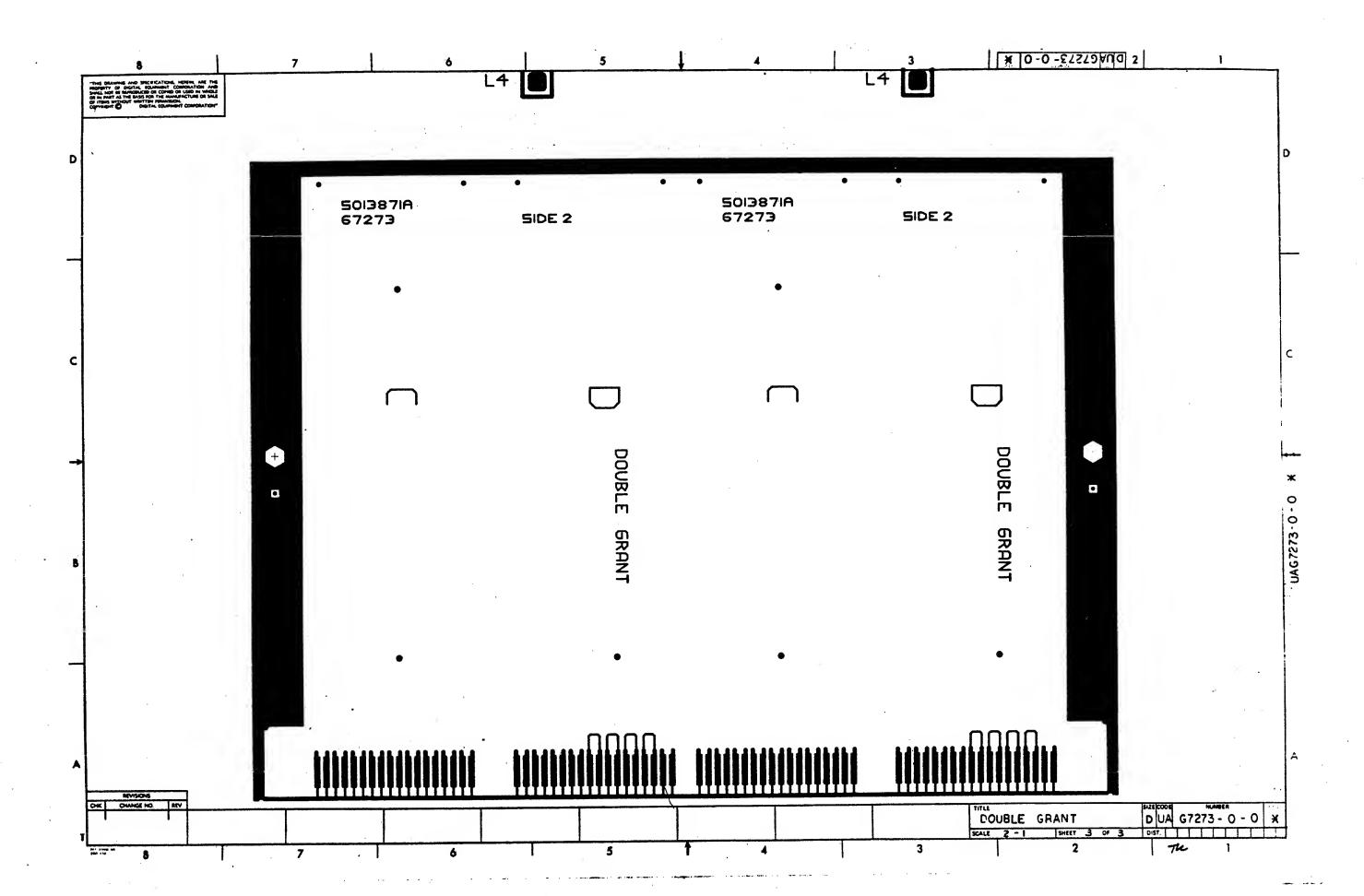


CTZT3 - O B DD size code DRAWING NO. OF PART NO. **REVISIONS DESCRIPTION** MODULE REVISION G7273 DCUBLE GRANT B-DD-G7273-0 I D-UA-G7273-0-0 3 DOUBLE GRANT DOUBLE GRANT K-FL-G7273-O-DBF I DRILL AND ETCH DRAWING ETCHED BOARD 5013871 FC DESIGN DATA BASE A K-FC-G7273-0-DBG **NOTES:** REVISIONS DATE CHG NO. USED ON OPTION/MODEL DOUBLE GRANT "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 4-30% B DD G7273 - 0 NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. 5580 SHEET | OF 1 COPYRIGHT® 1980 DIGITAL EQUIPMENT CORPORATION TW



14.4.





GINE ITEM DOCUMENT NUMBER

DESCRIPTION

. QUANTITY PFR VARIATION 20

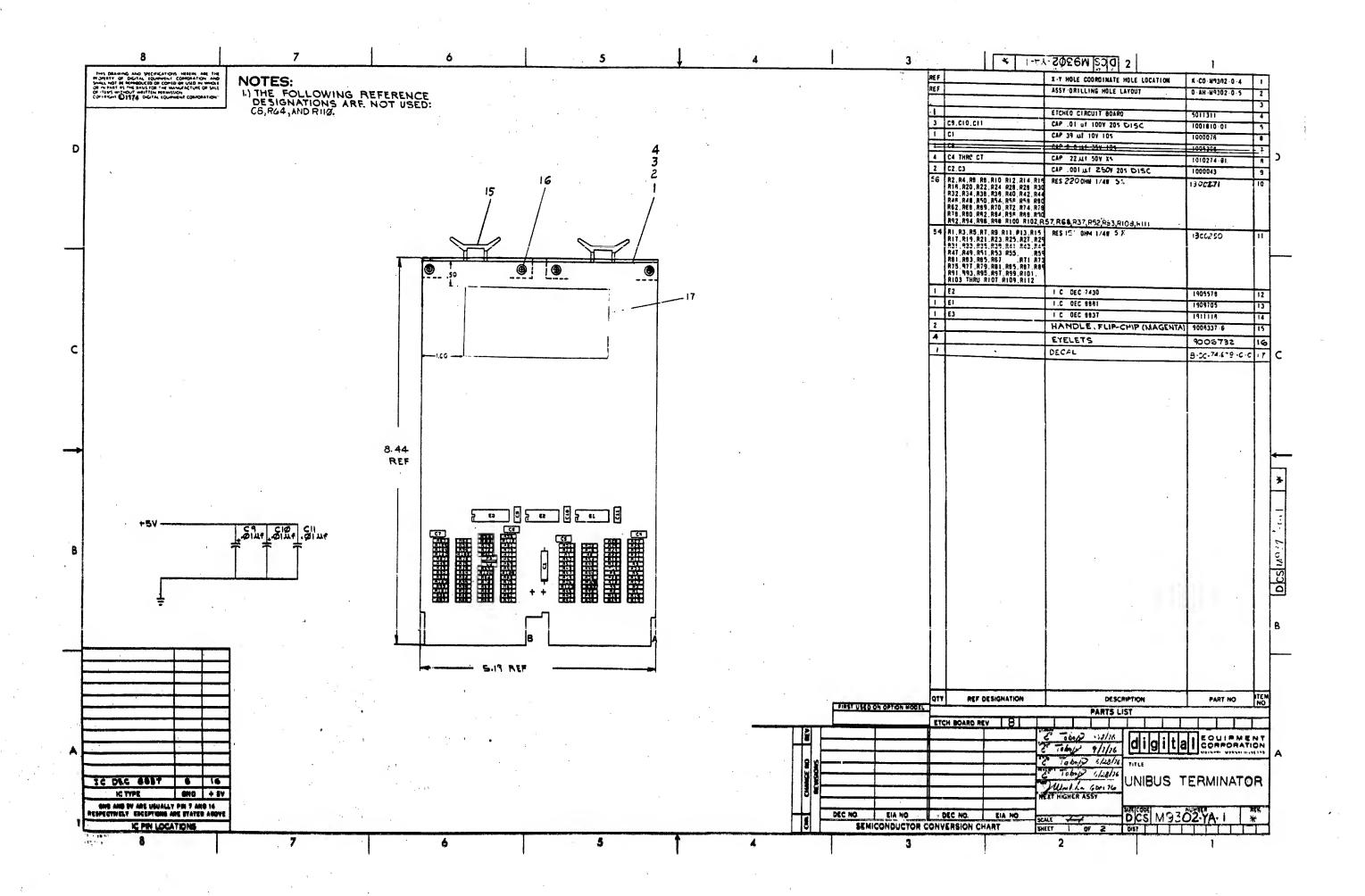
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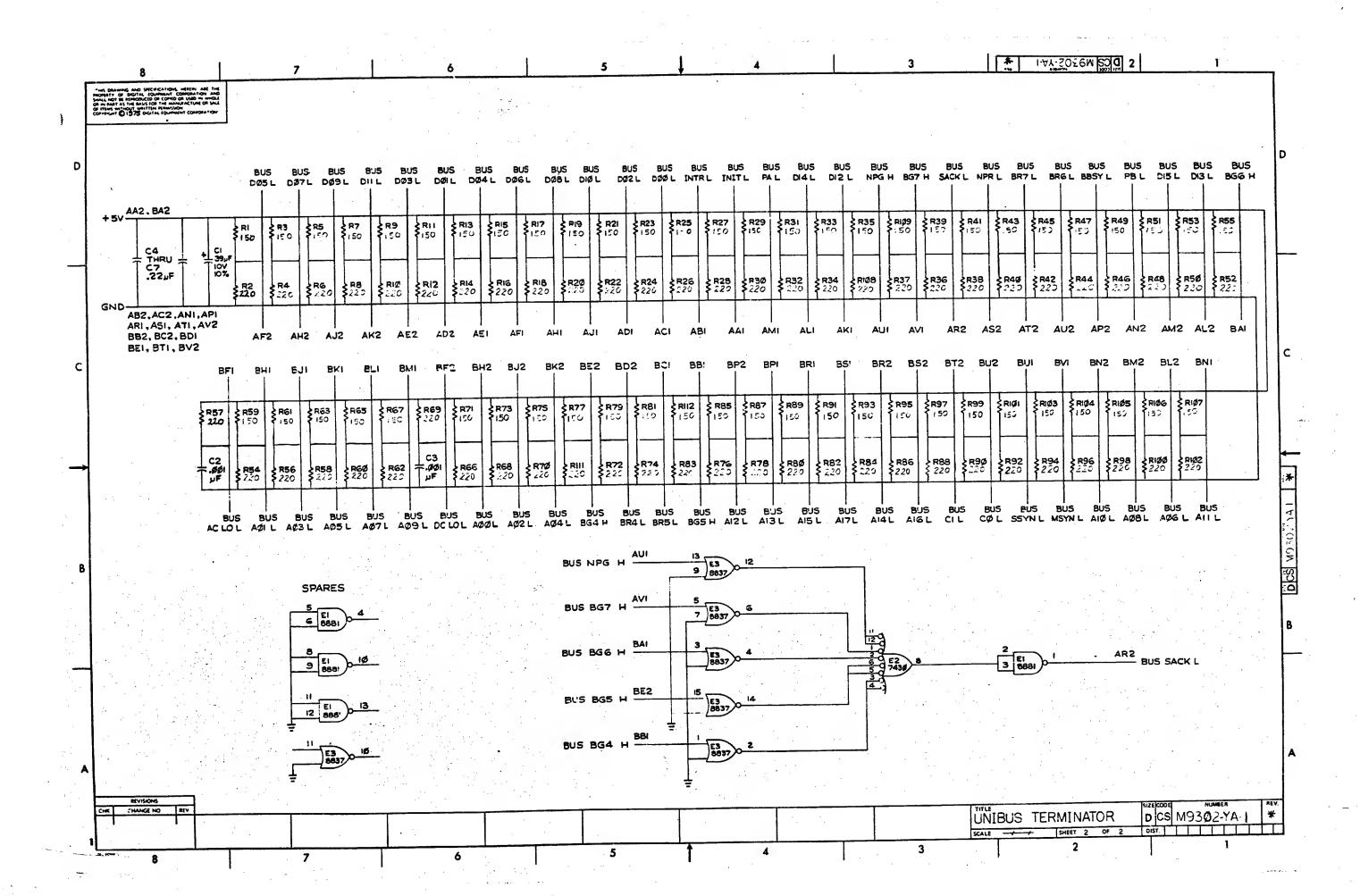
5013871-00 9006732-00 9008337-91

PART NUMBER

(11/24) BOARD FOR G7273 FYFLEE, ROLLED FLANGE, .121 OD X HANULE, FLIP CHIP, GREEN

1	EVISION HISTORY		HASIC PART NO: G7273	I IDRN:	F.SMART	IDATE: 18-JUL-7	9 1	i j i G i I i Ţ	IAIL
NGI	ECO NUMBER	REV	SECTION A OF A	!			ITITLE	PARTS LIST	. ! !
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1			(c)	!RESP.ENG.:	P. GRUDA	IDATE: 5-MAY-86		DÔC NH ĐỊ NƯM ĐỆI	
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i	0	<u>!</u>	; [E]	IMFG.ENG.:	G,ABREU	IDATE: 5-MAY-89	TK I PL	1 G7273-0-DBP	
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#### **TABLE OF CONTENTS**

B-TC-MS730-C-1 FIELD MAINT. PRINT SET MP01366
B-DD-MS730-C 1 MB 64K ECC MEMORY ARRAY - DRAWING DIRECTORY
B-PL-MS730-C-O 1 MB 64K ECC MEMORY ARRAY - PARTS LIST
B-DD-M8750-O MOS MEMORY ARRAY - DRAWING DIRECTORY
D-UA-M8750-O-O MOS MEMORY ARRAY ASSY
K-PL-M8750-CA-DBP MOS MEMORY ARRAY - PARTS LIST
D-CS-M8750-O-1 MOS MEMORY ARRAY - CIRCUIT SCHEMATIC

UNIT VARIATIONS COVERED BY THIS PRINT SET MS730-CA
MS730-CA
MS730-CB
MS730-CC
MS730-CD
MS730-CF

MS730-C

### Field Maintenance Print Set

# Digital Equipment Corporation

PRINT SET ORDER NO. MP01366

DRN. DATE USED ON OPTION/MODEL A. ROCHA 13APR82 11730 TITLE: CHK'D DATE CHG. NO. 1 M3 64K ECC MEMORY ARRAY REVISIONS Moura BARR82 FIELD MAINT. PRINT SET PROJ. ENG. DATE DM. Landry 20APR82 TC SIZE NUMBER REV. B DATE MS730-C-1 FIELD SERV. DATE DIST. 1. Llunter U APRO SHEET I OF\_1

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	UNIT VARIATIONS
VAR	TITLE
MS730-CA	1 MB 64K ECC MEMORY ARRAY - QTY 1
MS730-CB	1 MB 64K ECC MEMORY ARRAY - QTY 2
MS730-CC	1 MB 64K ECC MEMORY ARRAY - QTY 3
MS730-CD	1 MB 64K ECC MEMORY ARRAY - QTY 4
MS730-CF	1 MB 64K ECC MEMORY ARRAY - QTY 10
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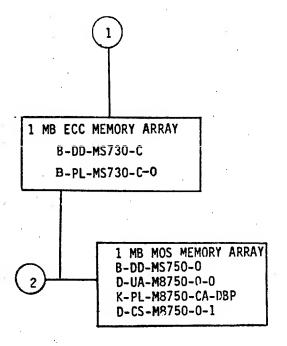
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B DD MS730-C

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1 MB 64K ECC MEMORY ARRAY

SHEET OF

SIZECODE B DD

NUMBER MS730-C

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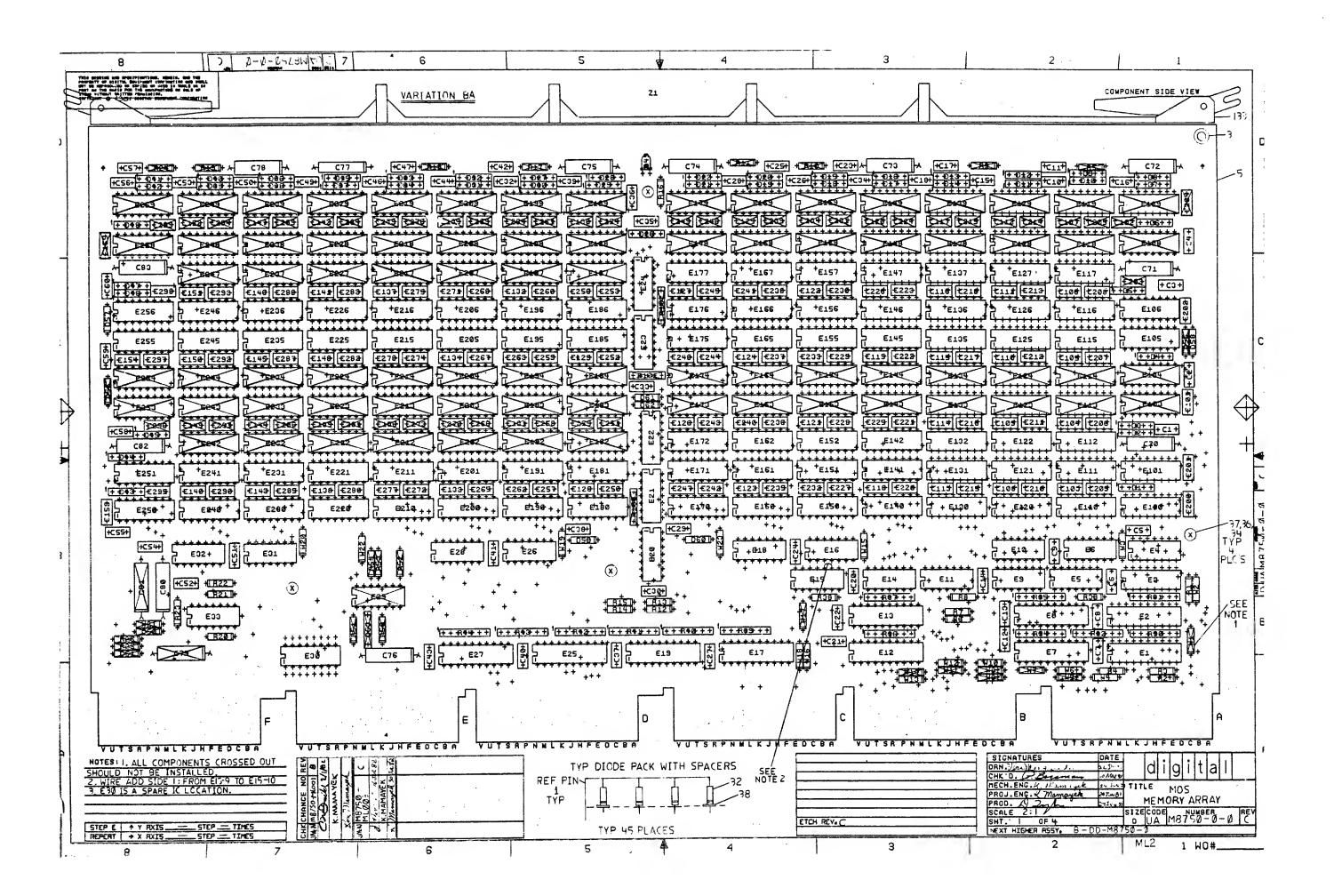
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1	MP01366 B-TC-MS730-C-1	FIELD MAINTENANCE PRINT SET (TC)		-		
	B-DD-MS730-C-1	FIELD MAINTENANCE PRINT SET (MP) FIELD MAINTENANCE PRINT SET (TC) 1 MB 64K ECC MEMORY ARRAY - DRAWING DIRECTORY	-			
	B-PL-MS730-C-0	1 MB 64K ECC MEMORY ARRAY - PARTS LIST	-			
			_			
2	B-DD-M8750-0	1 MB MOS MEMORY ARRAY - DRAWING DIRECTORY	-			
	D-UA-M8750-0-0	1 MB MOS MEMORY ARRAY - DRAWING DIRECTORY 1 MB MOS MEMORY ARRAY ARRAY	E/M			
	K-PL- M8750-CA-DBP D-CS-M8750-0-1	1 MB MOS MEMORY ARRAY - PARTS LIST 1 MB MOS MEMORY ARRAY - CIRCUIT SCHEMATIC	-			
	D-CS-M8750-0-1	1 MB MOS MEMORY ARRAY - CIRCUIT SCHEMATIC	E			
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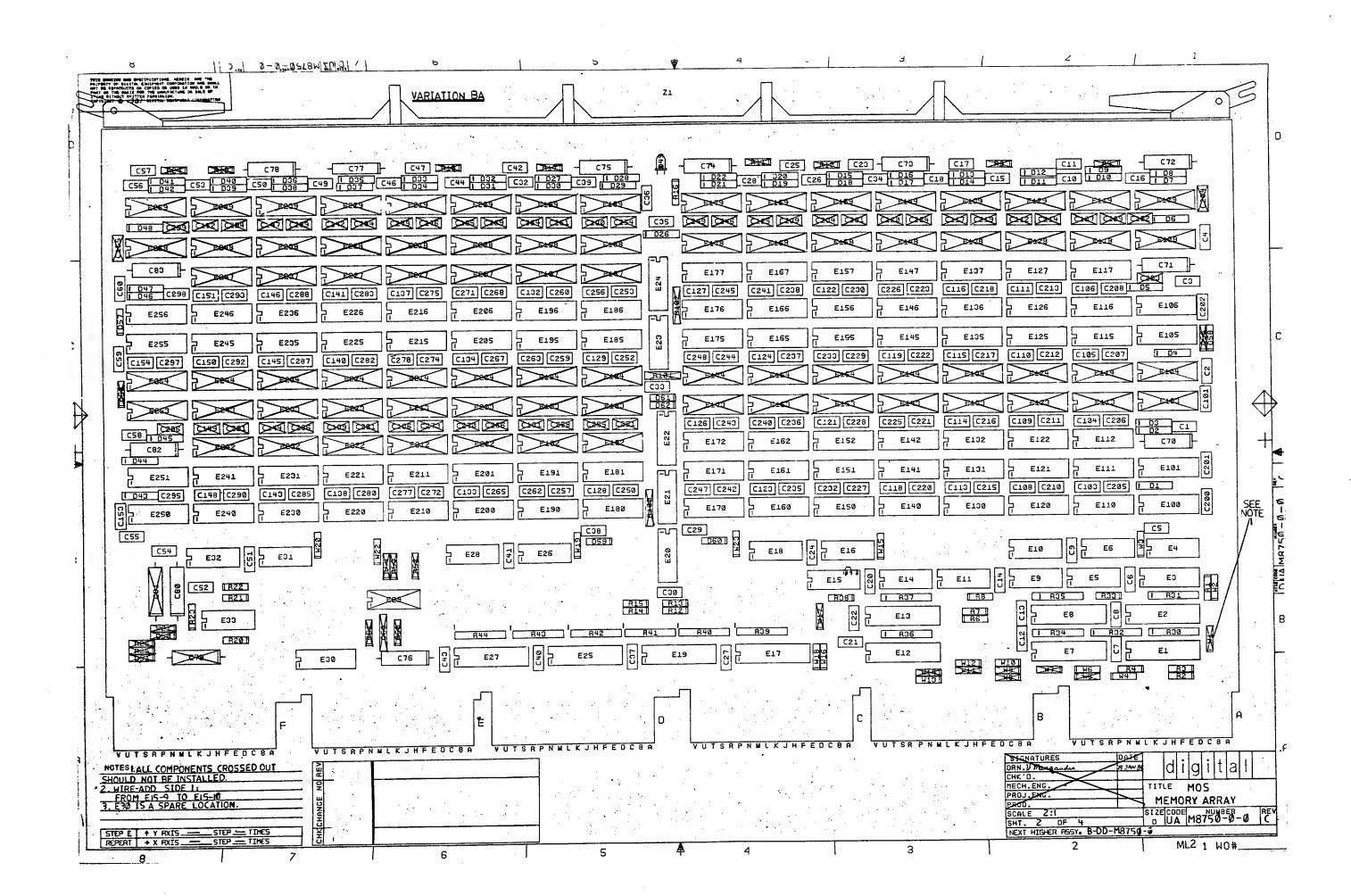
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ITEM NO.	DRAWING NO	PART NO.		CRIPTION	MS730	MS730-CB	MS730-CC	MS730-CD	MS730-CF							-		REF DESIGNA	TION	
7	B-DD-M8750-0	M8750-CA	1 ND ADDAY NOC NEW	ACDV.					<u> </u>							-		NEF DESIGNA	ATTOM	
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CORP AS TH	DRAWING AND SPECIFICATIONS, HEREI ORATION AND SHALL NOT BE REPRODUC IE BASIS FOR THE MANUFACTURE OR SA	CED OR COPIED OR USED I LLE OF ITEMS WITHOUT WI	IN WHOLE OR IN PART	1 MB 64K EC	CC ME!	ORY .	ARRAY	1		ASS		D-MS73	30-C			B	PL	NUMI MS730-C-0	BER	REV.
OPY	RIGHT DIGITAL EQUIPMENT CO	ORPORATION"								SHE	ET	1	OF	1		INSERT	ON PARTS	LIST DATA BASE REV		

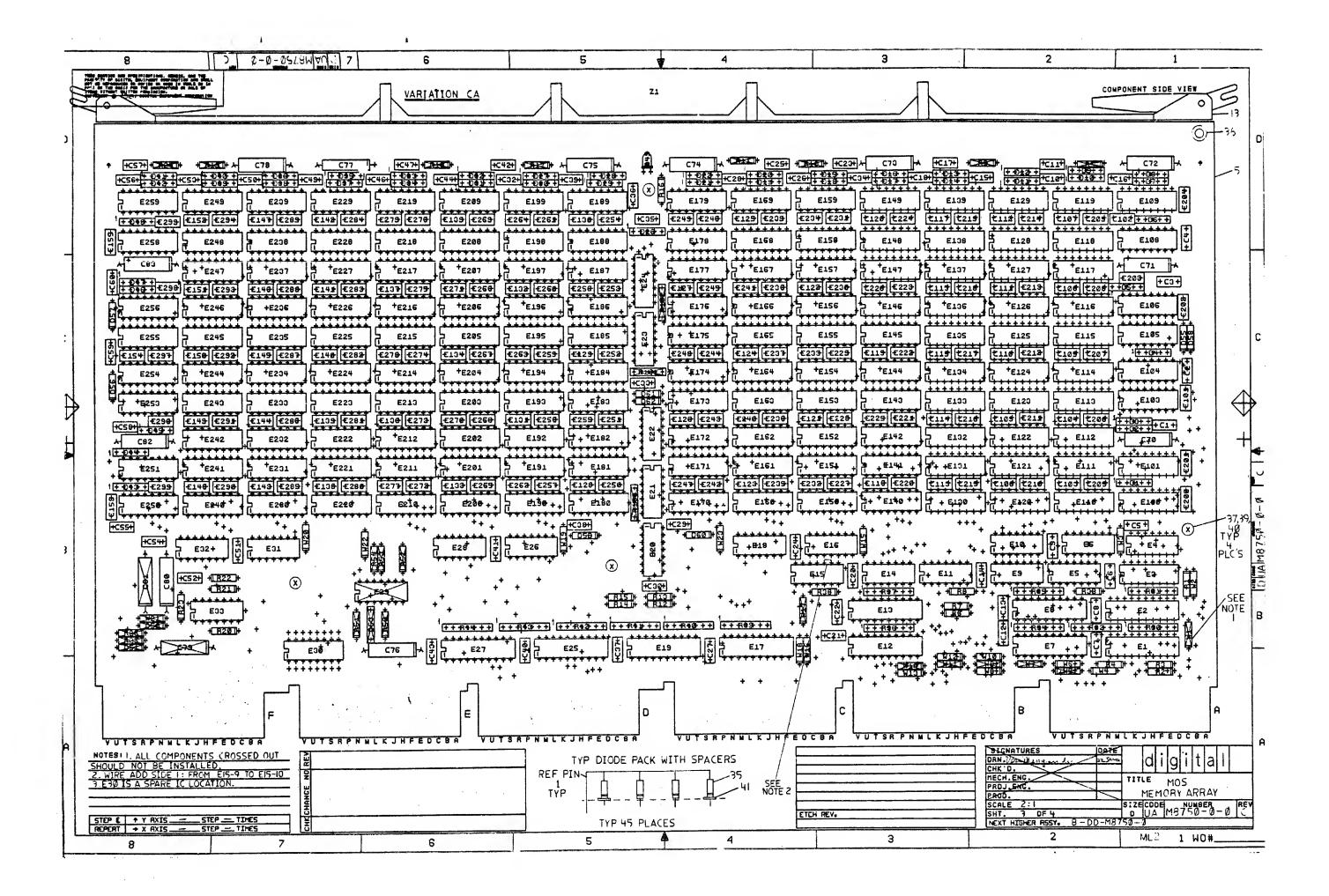
B DD size code NUMBER **REVISIONS** DRAWING NO. OF PART NJ. **DESCRIPTION** AAAA MOS MEMORY ARRAY M8750-00 A B B C MOS MEMORY ARRAY D-UA-M875Ø-Ø-Ø AAAA 15 MOS MEMORY ARRAY D-CS-M875Ø-Ø-1 ABBC PARTS LIST DATA BASE 3 K-PL-M875Ø-BA-DBP AAAA P. C. DESIGN DATA BASE K-PC-M875Ø-0-DBC c c c c ETCH BOARD 5Ø137Ø6 AAAA PARTS LIST DATA BASE K-PL-M875Ø-CA-DBP A A A A CIRCUIT SCHEMATIC DATA BASE K-CS-M875Ø-Ø-DBG M8750 MOS STORAGE ARRAY 14 A-SP-M8750-Ø-2 **NOTES:** 1. Uses Etch of D-MD-5Ø137Ø6-Ø-Ø (M8728) REVISIONS
CHG NO. F
INITIAL
MLØØ1
MLØØ2
MLØØ3 21JAN81 TITLE DRN. MANGAUDIS USED ON OPTION/MODEL MOS MEMORY ARRAY "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-CHK'B Bossman PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 14 MARSI NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE B DD NUMBER RFV. M875Ø-Ø D ITEMS WITHOUT WRITTEN PERMISSION. 24JUN81 SHEET 1 OF 1 COPYRIGHT® 1981 DIGITAL EQUIPMENT CORPORATION

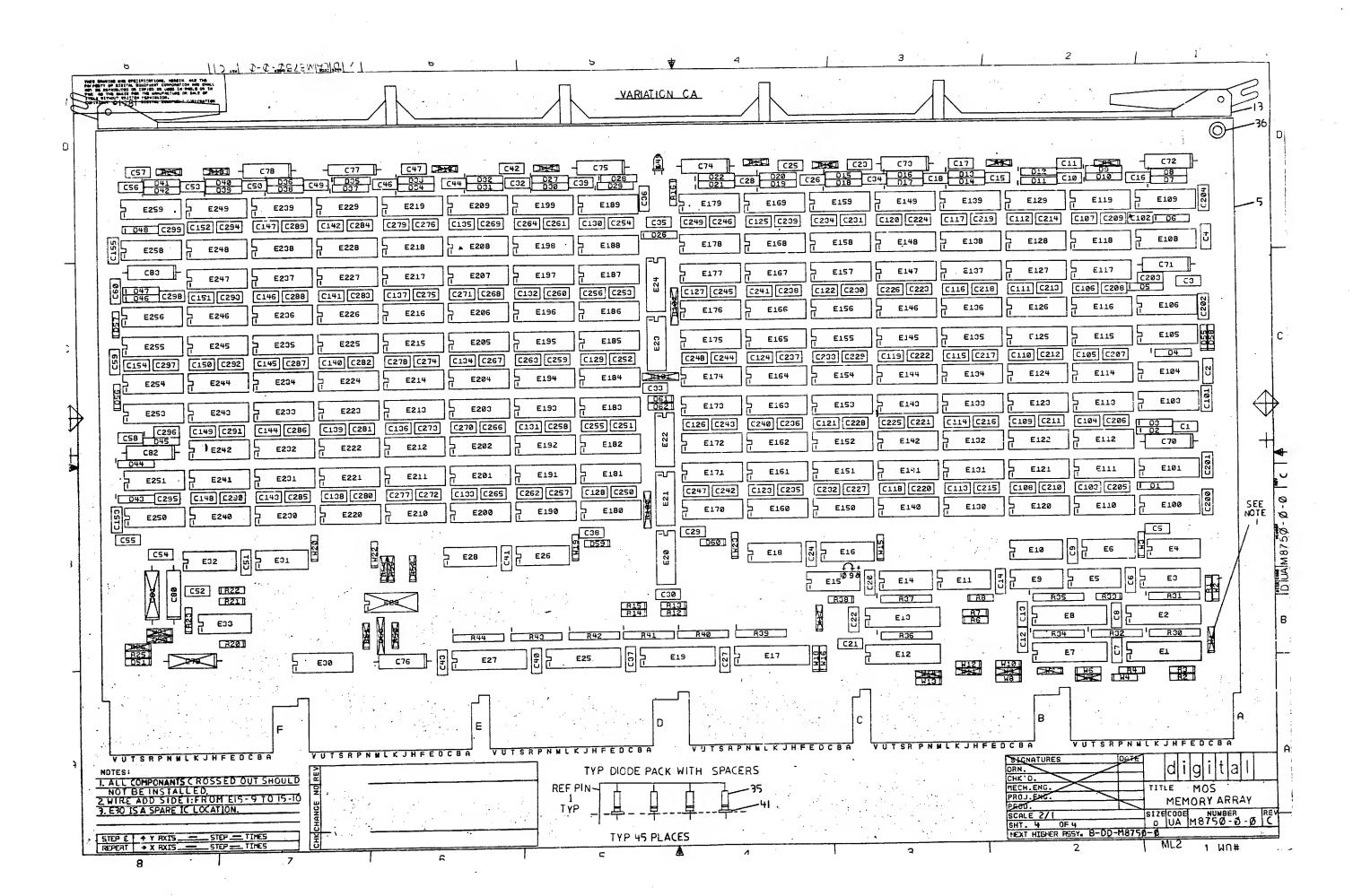
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D









AUTOMATED BY PRTLST.3P(44) LINE ITEM DOCUMENT NUMBER	PART NUMBER DE	PARTS LIST	QTY PER VARIATION CB CD CH REF	SHEET A1 OF A2 TERENCE DESIGNATOR
1 1 D-UA-M8750-0-0 2 2 D-CS-M8750-0-1 3 3 D-MD-5013706-0-0 4 4 B-DD-M8750-0 5 5 6 6 SPARE IC 7 7	2013/06-00 DK	NIT ASSEMBLY  IRCUIT SCHEMATIC  RILL & ETCH DRAWING  RAWING DIRECTORY  RILL+ETCH MEMORY  PARE IC  DI MFD 50V +80-20% Z5U CER	REF REF REF REF REF REF REF REF REF 1 1 1 1 E3C 47 47 47 C1- CONT C27	0 C10,C12-C16,C18,C20-C24, C-C30,C32-C41,C43,C44,C46,C49, CC53-C56,C58-C60
8 8 9 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16	1010274-00 .2  1012084-01 1105275-00 1109991-00 ** 1114384-00 LE 1216988-02 HA 1300309-00 39 1300365-00 1301317-00 1	22 MFD 50V +80-20% Z5U CER  8 MFD 25V +75-10% AL EL  D 672 TR= 15NS PIV= 60V SI  8* THIS ITEM IS NOT USED ***  ED 105MW 35MA GREEN  NNDLE, MODULE, HEX TWO EJECTORS  30.0 .25 W 5.0 % CC  1.0 K .25 W 5.0 % CC	164 164 164 C10 C52 C70 C70 C70 C70 C70 C70 C70 C70 C70 C70	.R23
9 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 19 20 20 21 21 22 22 23 23 24 24 25 25 26 26 27 27	1301972-00 27 1302124-00 1 1302177-00 4 1315678-00 R 1513265-00 1910091-00 DE 1910532-00 1910534-00 1911676-00 1912068-00 1912388-00	8 MFD 25V +75-10% AL EL D 672 TR= 15NS PIV= 60V SI	1 1 1 R16 2 2 2 R33 11 11 11 R1- 13 13 13 R30 1 1 1 E33 1 1 1 E33 1 1 1 E33 1 1 1 E33 1 1 1 E33 1 1 1 E33 1 1 1 E33 1 1 1 E35 1 1 1 E35 1 1 1 E55	.R38 R4.A6-R8.R12-R15 -R32.R34-R37.R39-R44 .E20
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REVISION HISTORY BASIC ENG! ECO NUMBER REV SECTION A SECTION INITIAL A SECTION INITIAL BETTER THE PROPERTY OF	ON. VARIATION INDEX	CHK'D: P.BOSSMAN DATE	E: 4-FES-31 MOS M	PARTS LIST EMORY ARRAY
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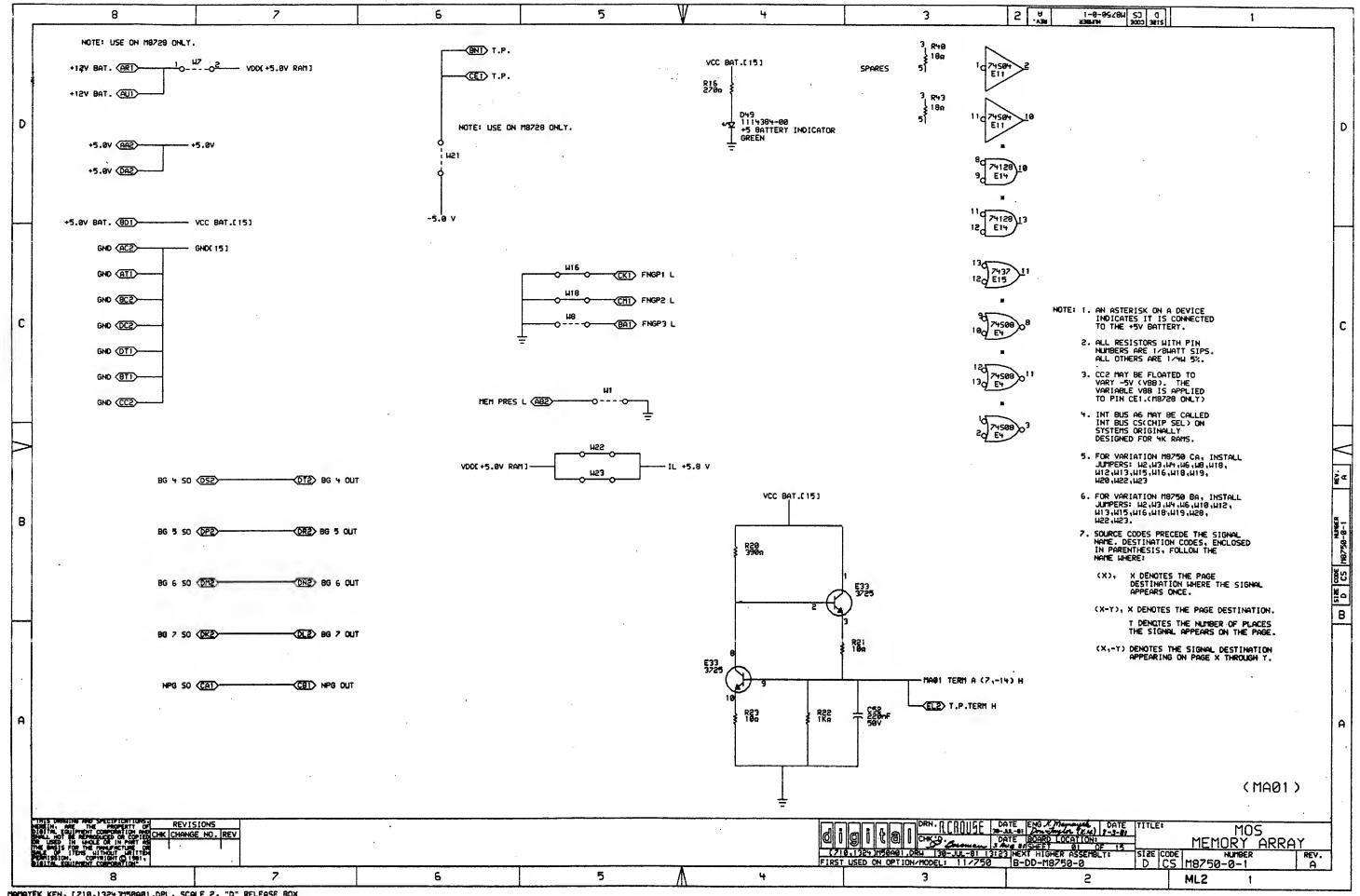
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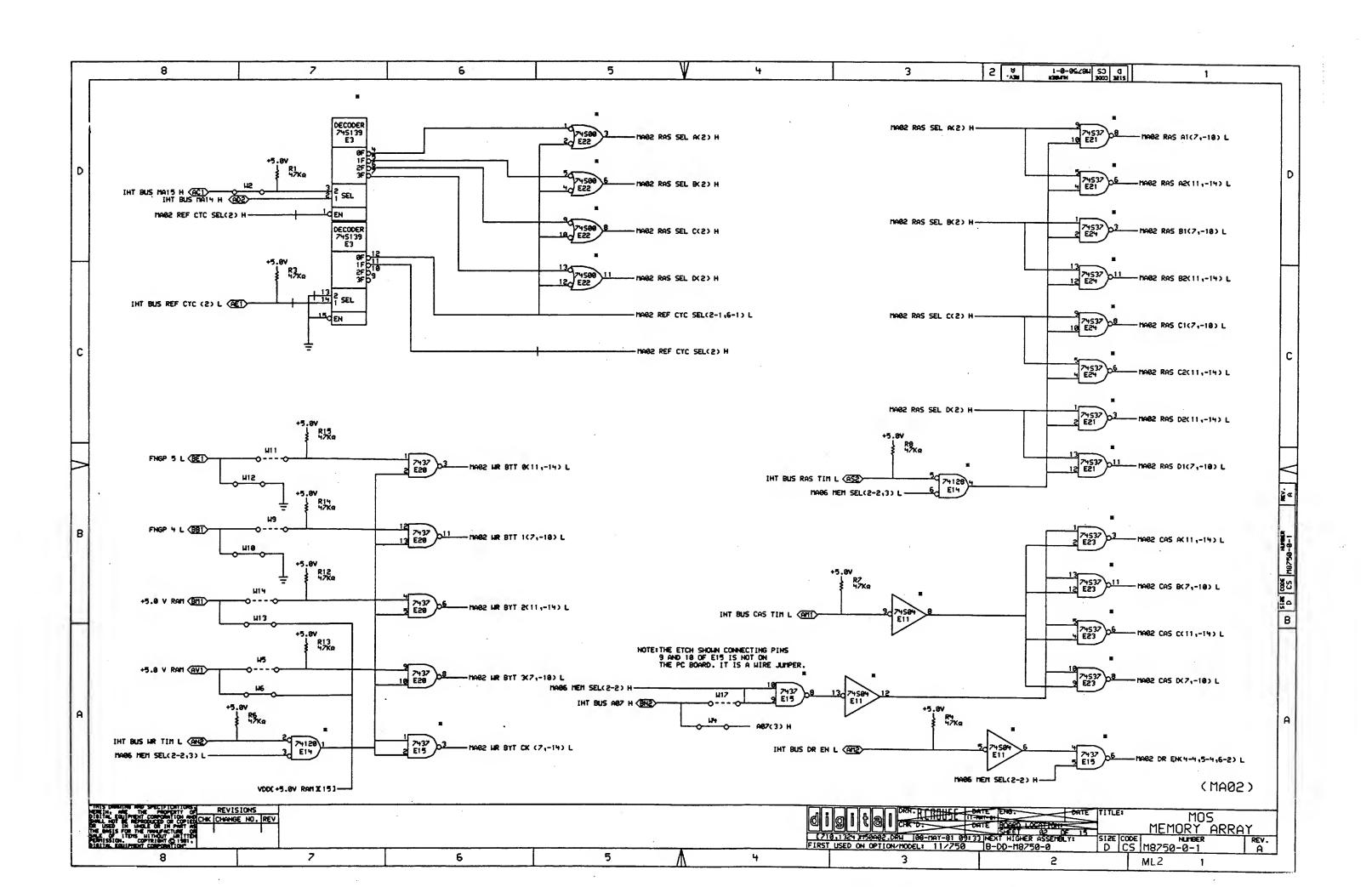
AUTOMATED BY	PRTLST.3P(44)		PARTS LIST	QTY PER VARIATI	SHEET A2 OF A2
LINE ITEM DOC	UMENT NUMBER	PART NUMBER	DESCRIPTION	CB CD CH	REFERENCE DESIGNATOR
28 28 29 29		1912389-00 19127 <del>4</del> 6-00	74508 AND GATE-QUAD 2IN,PO DEC 74537 NAND GATE-QUAD 2IN	1 1 1 1 CONT	E4 E6,E10,E16,E18,E21,E23,E24,E26, E28,E31,E32 E1,E2,E7,E8,E12,E13,E17,E19,E25, E27
30 30		1913777-00	LS240 DRIVER, LINE, OCTAL, T	10 10 10 CONT	ĒĪ,Ē2,E7,E8,E12,E13,E17,E19,E25, E27
31 31 32 32		2113825-01 2118467-01	*** THIS ITEM IS NOT USED *** 8264-20 RAM 64K X1,200NS 1	- 156 - CONT	E100,E101,E103-E106,E108-E251, E253-E256,E258,E259 E100,E101,E103-E106,E108-E251, E253-E256,E258,E259
33 33		2118472-01	4164-2 MOS RAM 64K X1,200	156 CONT	E100.E101,E103-E106,E108-E251, E253-E256,E258,E259
34 34		2118470-01	4864-1 MOS RAM 64K X1,200	CONI	E100,E101,E103-E106,E108-E251, E253-E256,E258,E259 D1-D22,D26-D48
35 35 36 36 37 37 38 38	3	7010918-01 9000024-01 9006968-00 9009185-00	DIODE STICK G652 EYELET, ROLL FLANGE .1210DX .192 SPACER, FIBER, RND, 4-40, .250 X JUMPER, NIRE, INSULATED. BLACK B	45 45 45 12 12 12 4 4 4 15 15 15	D1-D22,D26-D48 W2-W4,W6,W8,W10,W12,W13,W15,W16, W18-W20,W22,W23
39 39 40 40 41 41		9009233-04 9009321-00 9107771-00	SCREW, NYLON, SLTD BINDER HD, 4- LOCK TITE, SCREW LOCK, 1900 FER TUBING, STAD WALL, .04010 UL	CONT	NIS-NEU, ACE, NES

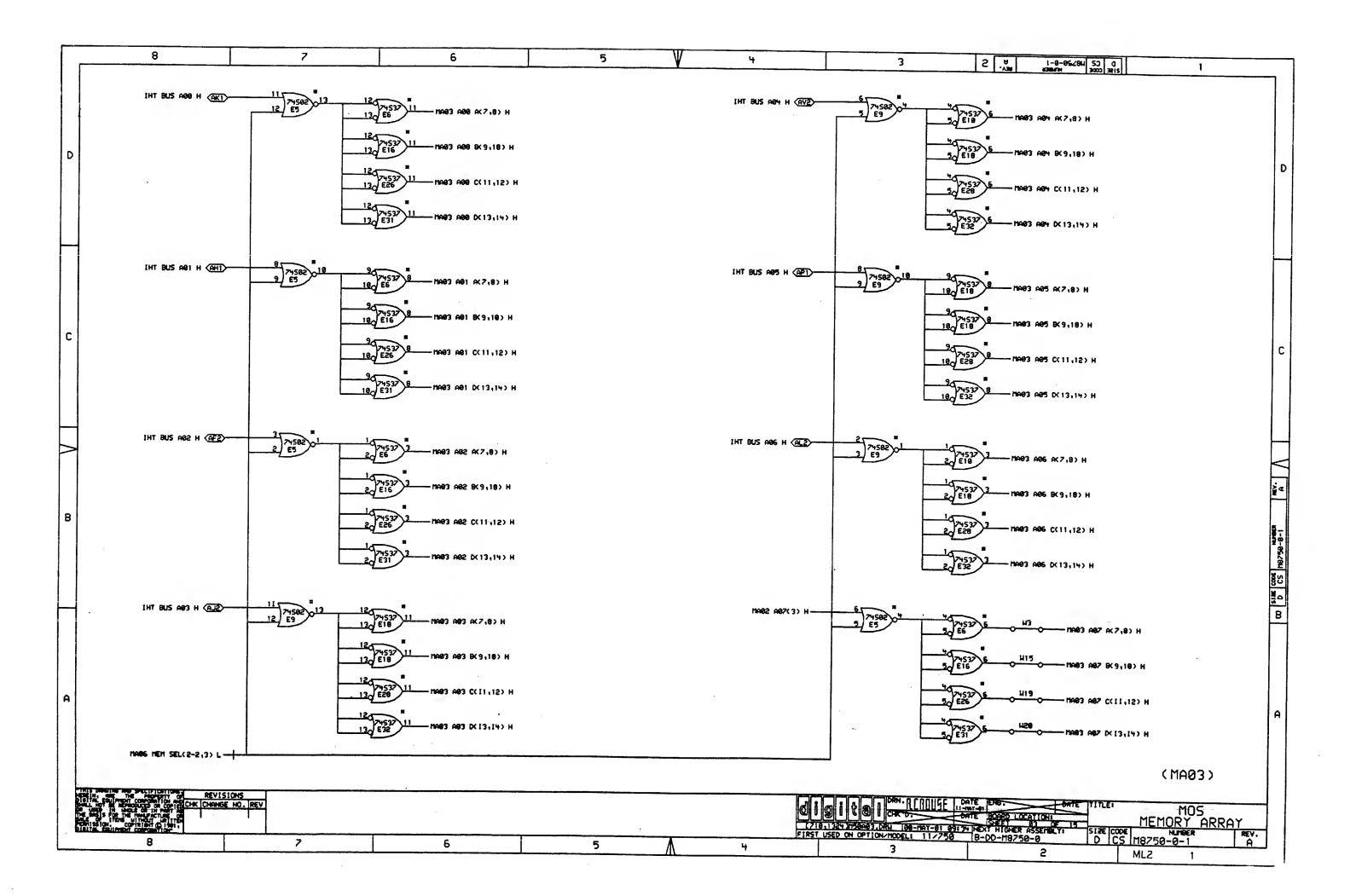
M8750-CA IS THE PRIMARY VARIATION 256K X 39 BITS SYSTEM (NOT A MODULE TYPE). M8750-CB IS A MODULE TYPE USING HITACHI 64K MOS DEVICES. M8750-CD IS A MODULE TYPE USING FUJITSU 64K MCS DEVICES. M8750-CH IS A MODULE TYPE USING NEC 64K MCS DEVICES. 42 NOTE: 43 NOTE: 44 NOTE: 45 NOTE:

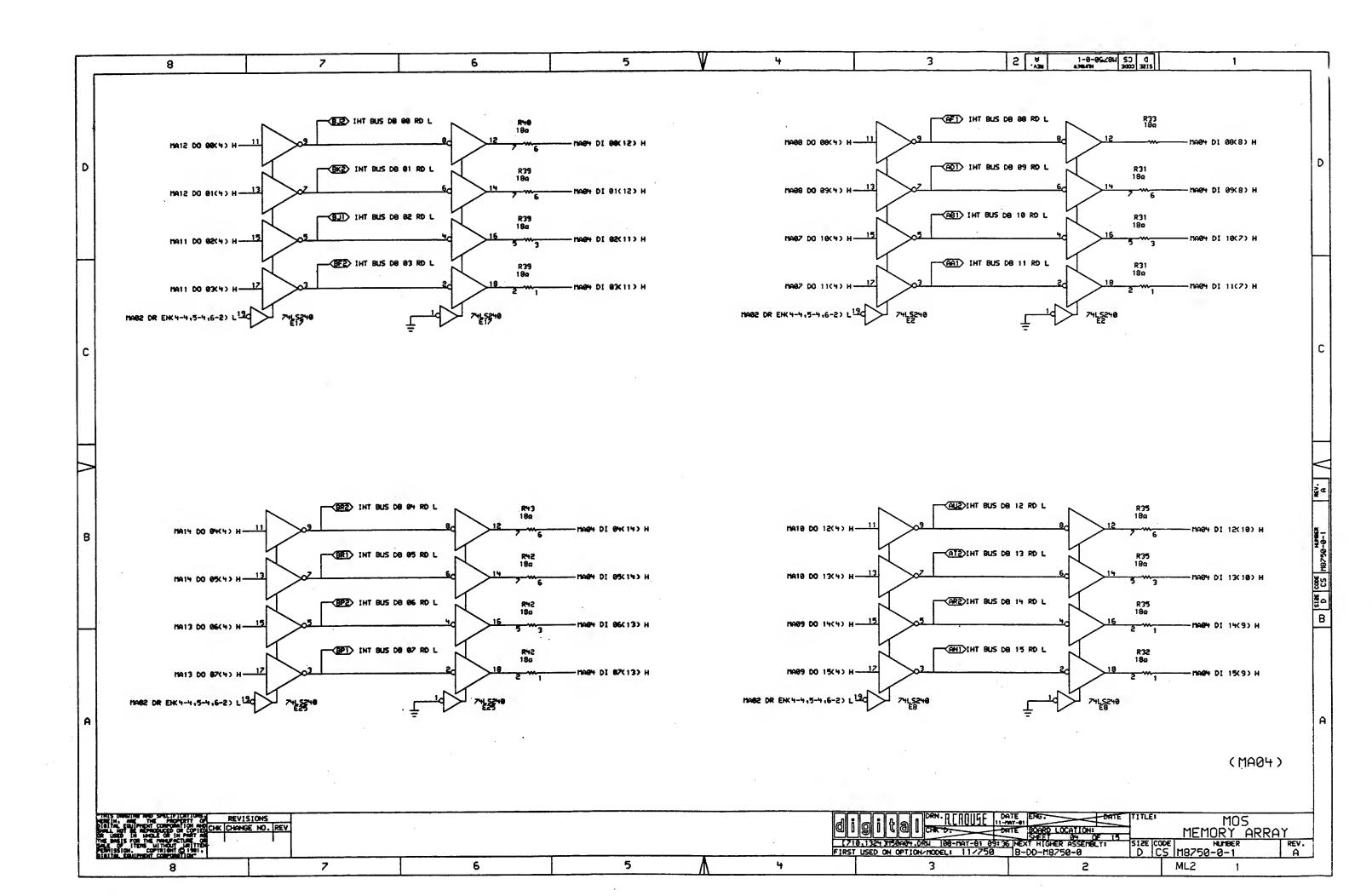
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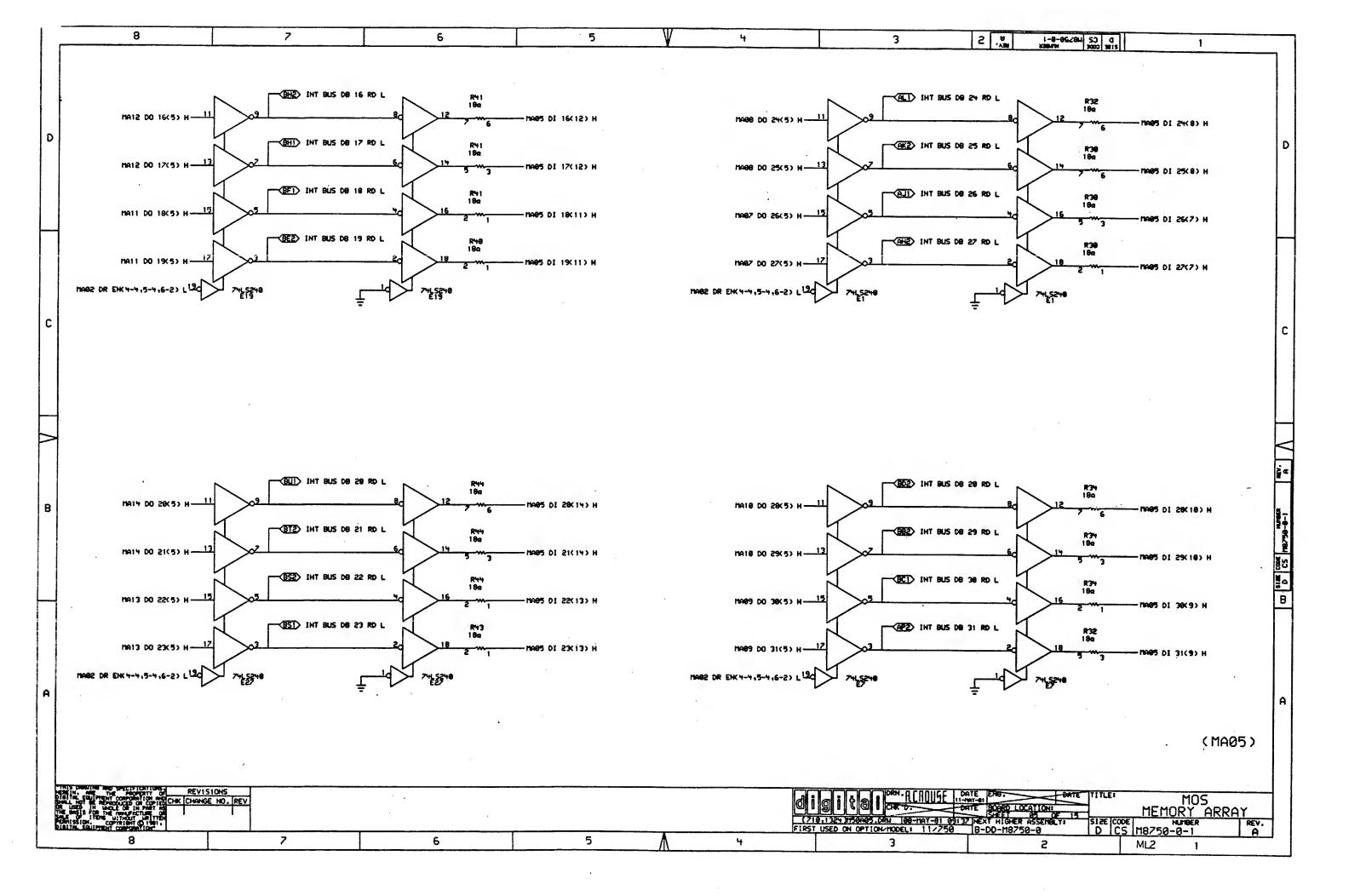
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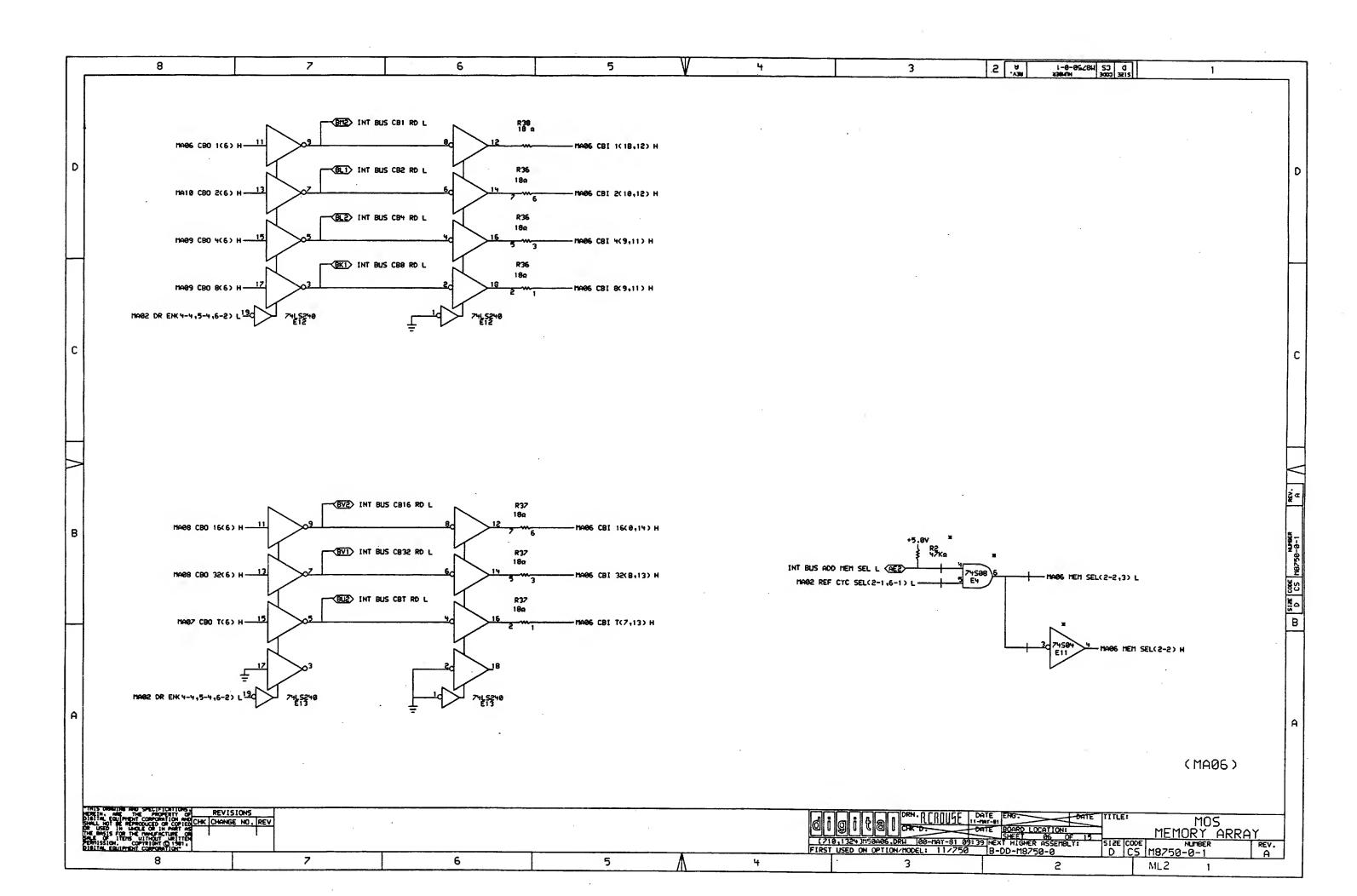


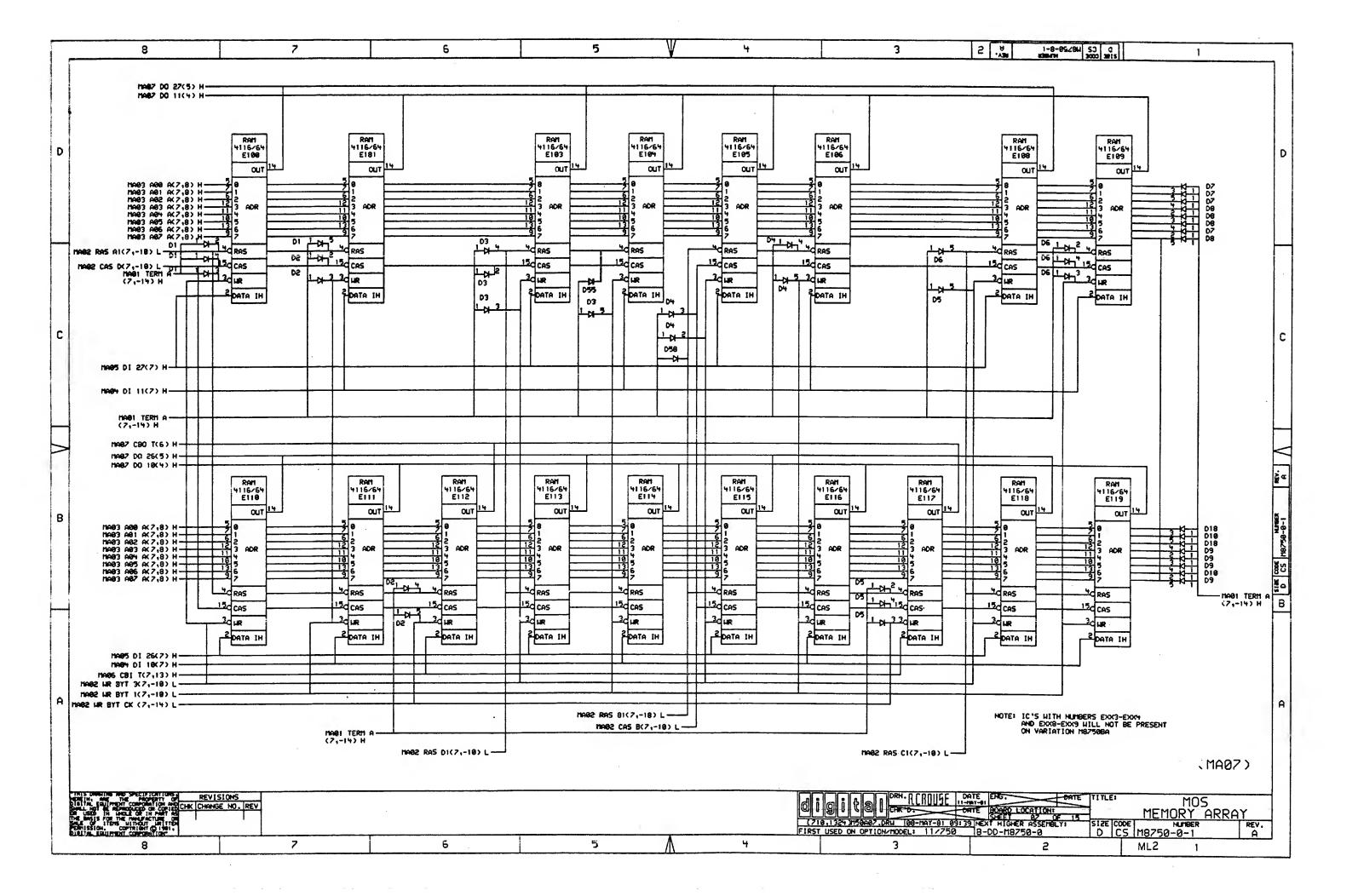


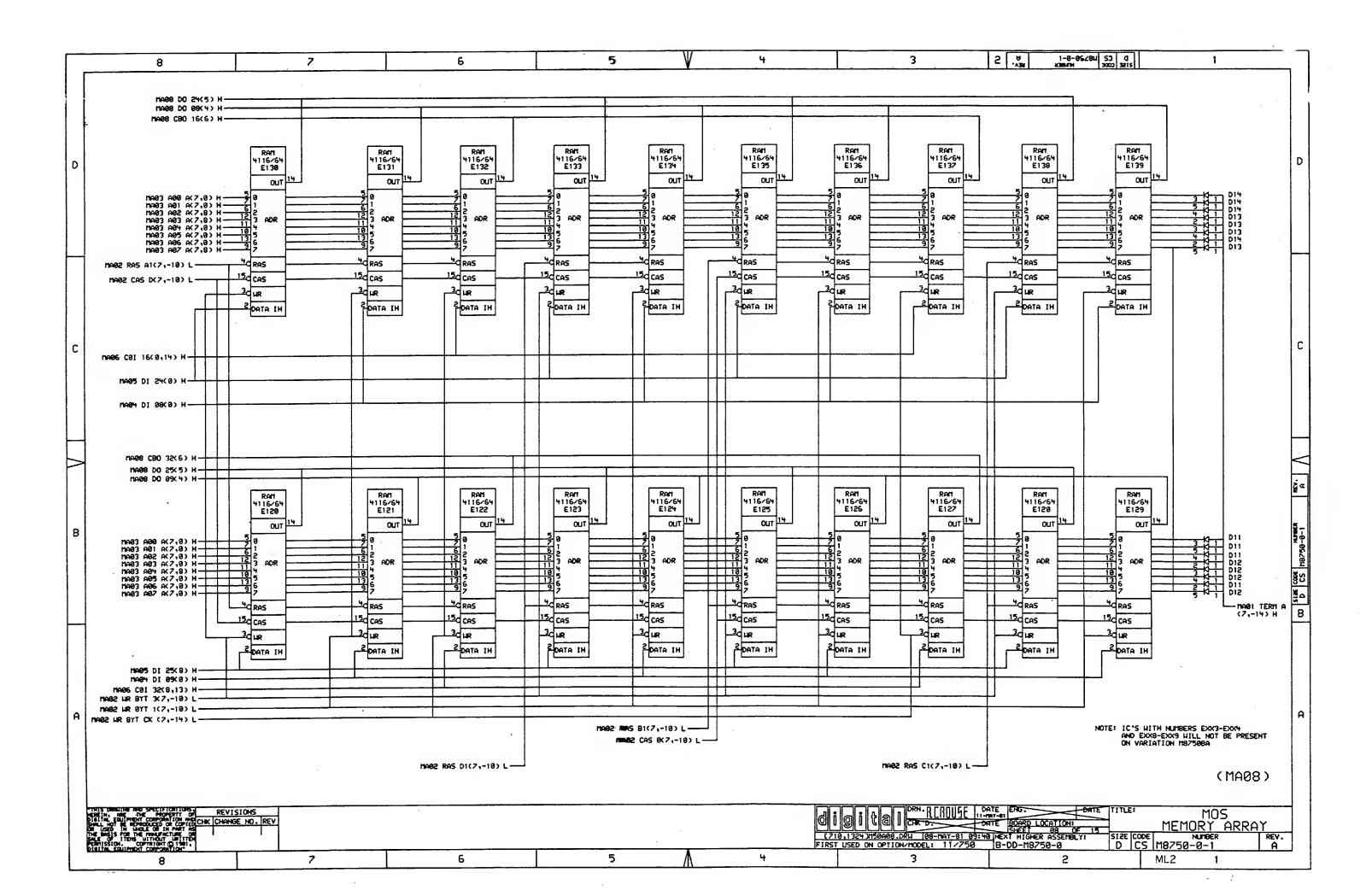


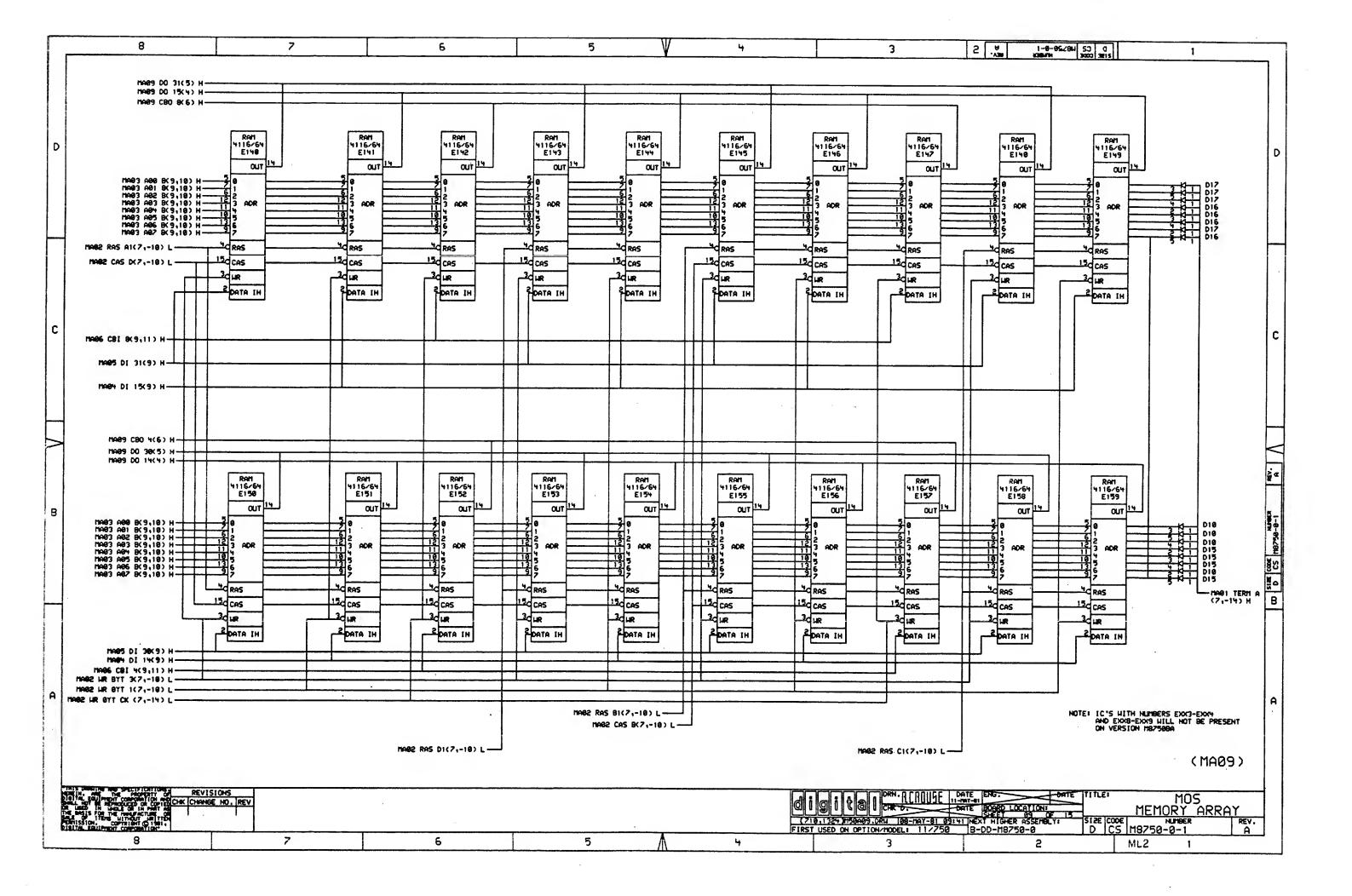


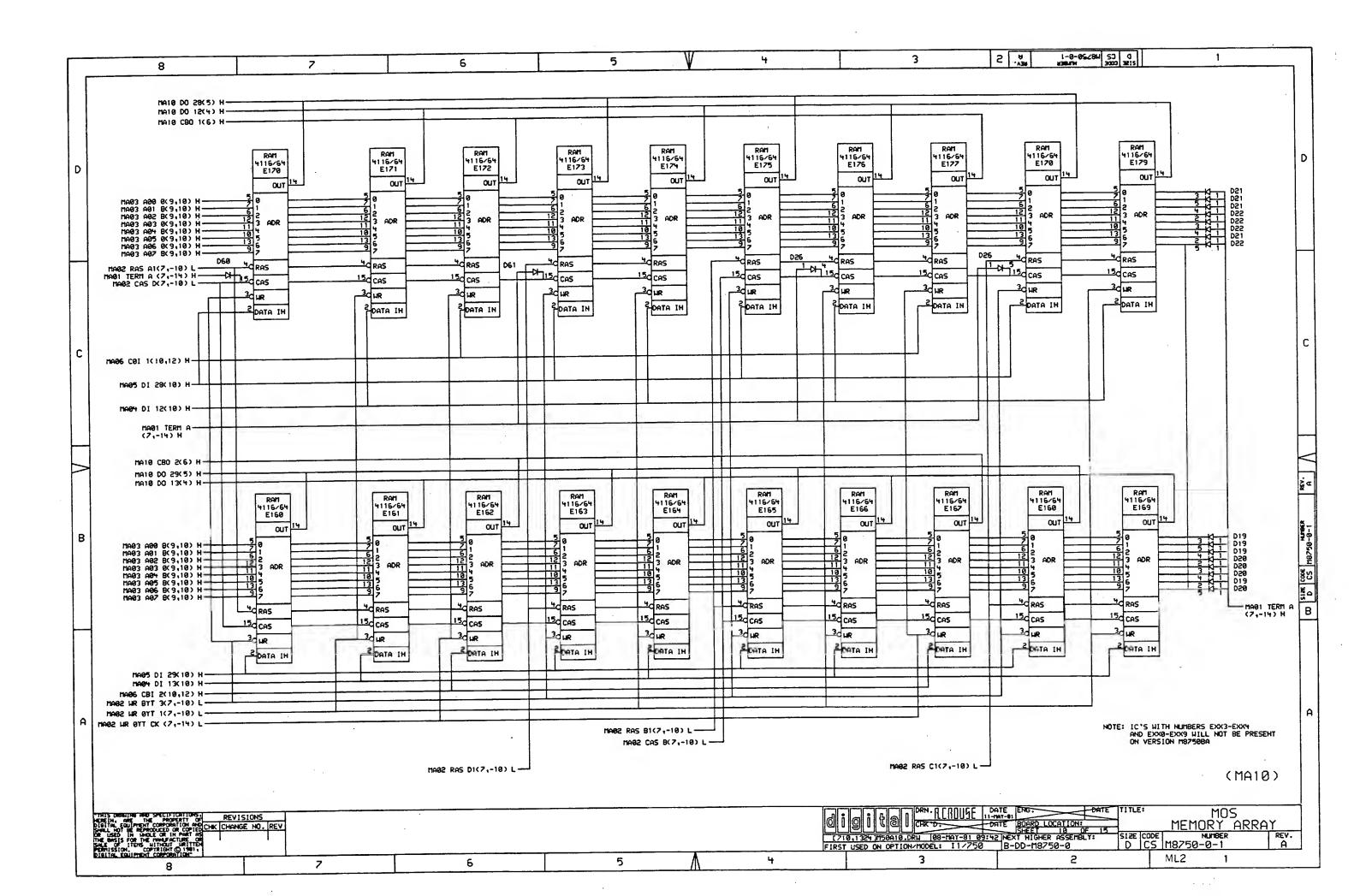


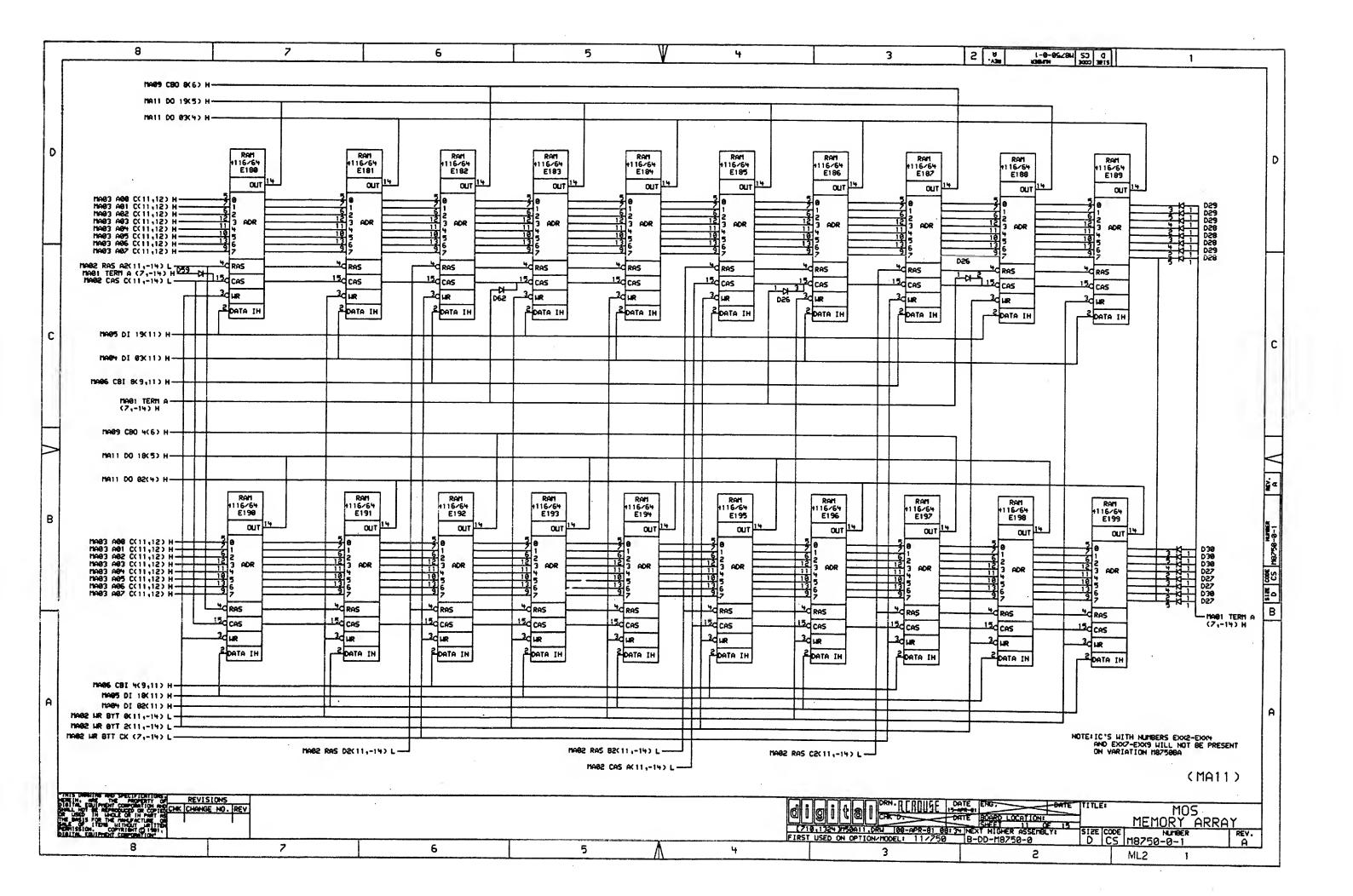


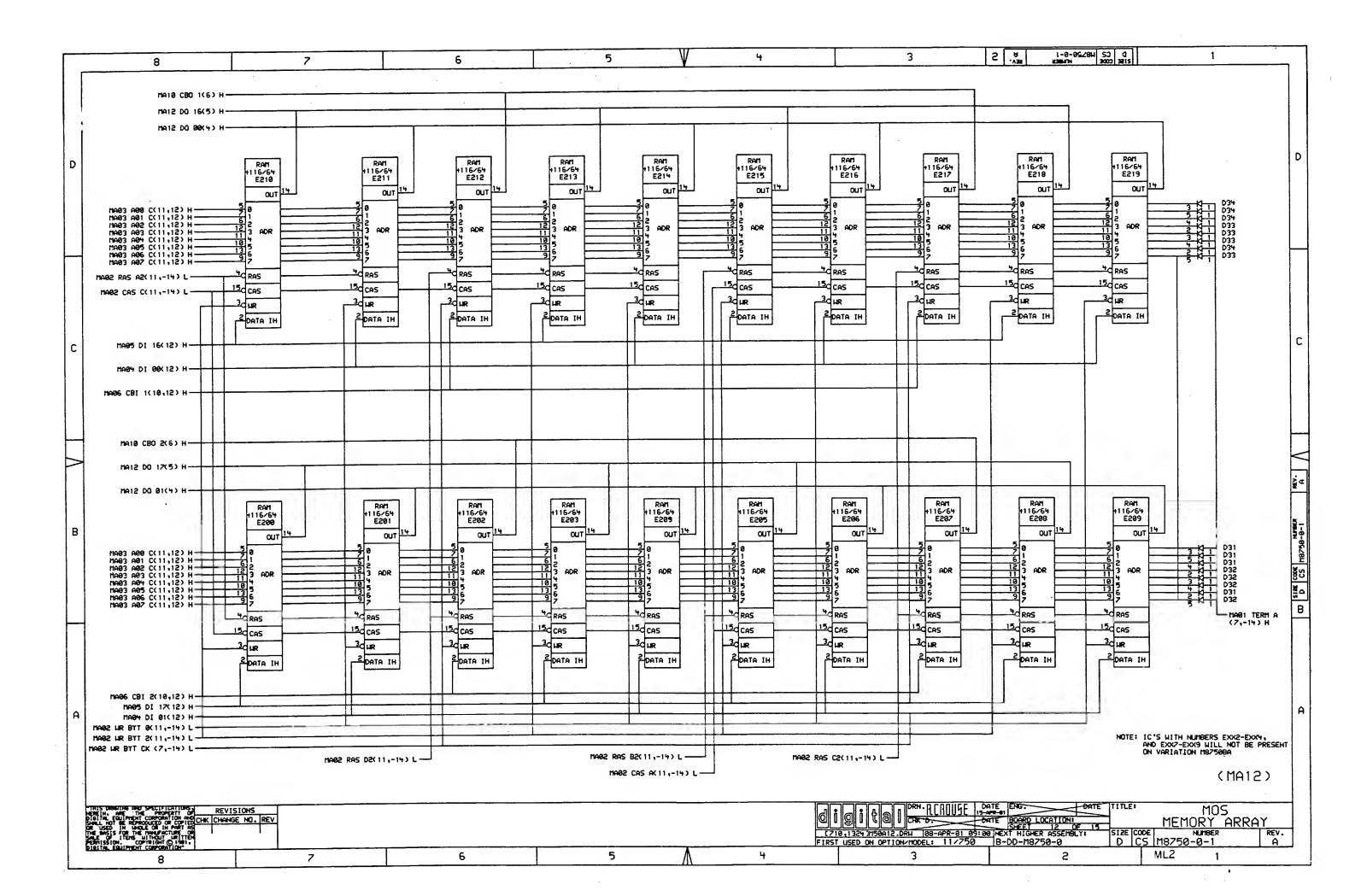


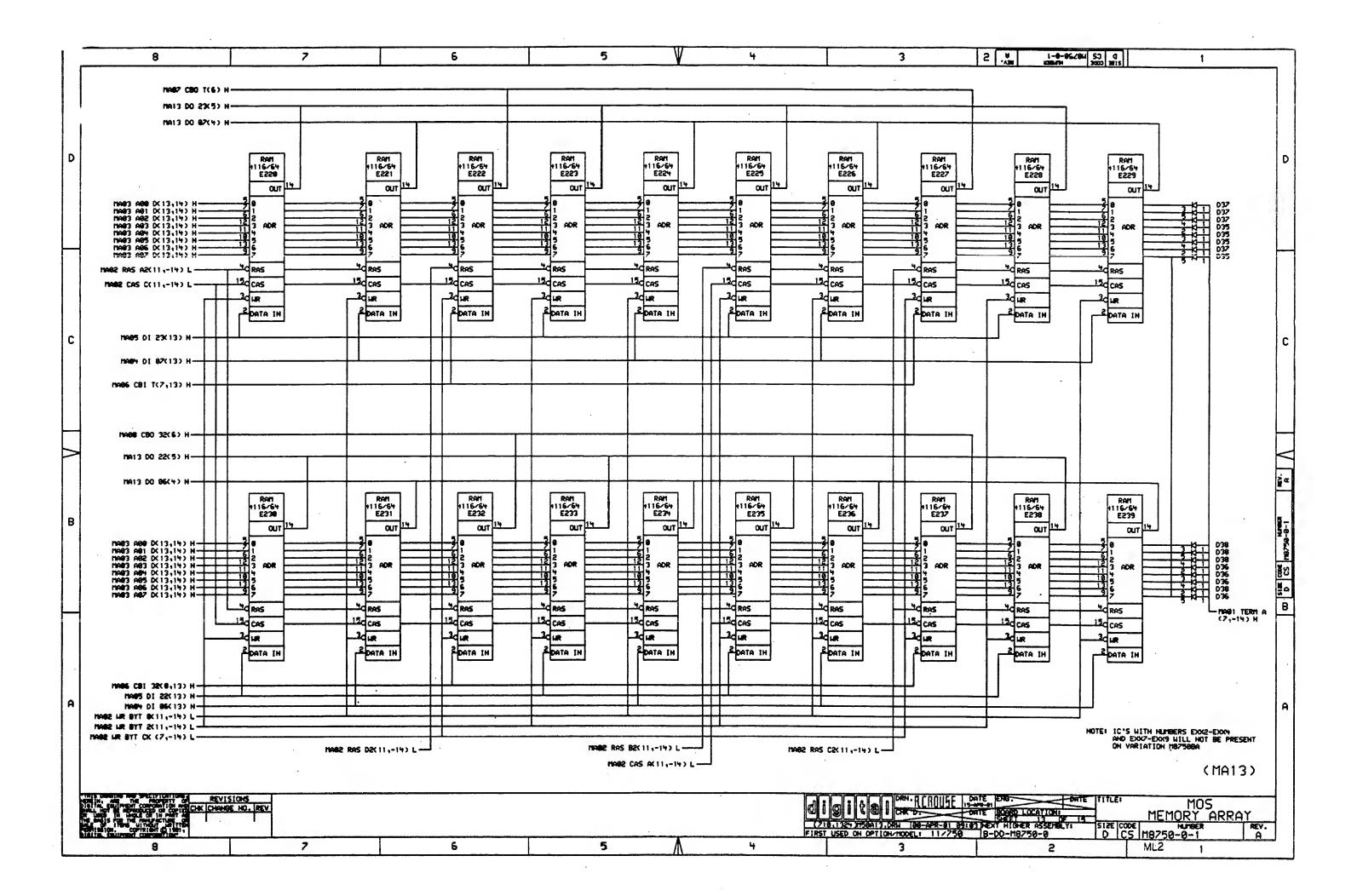


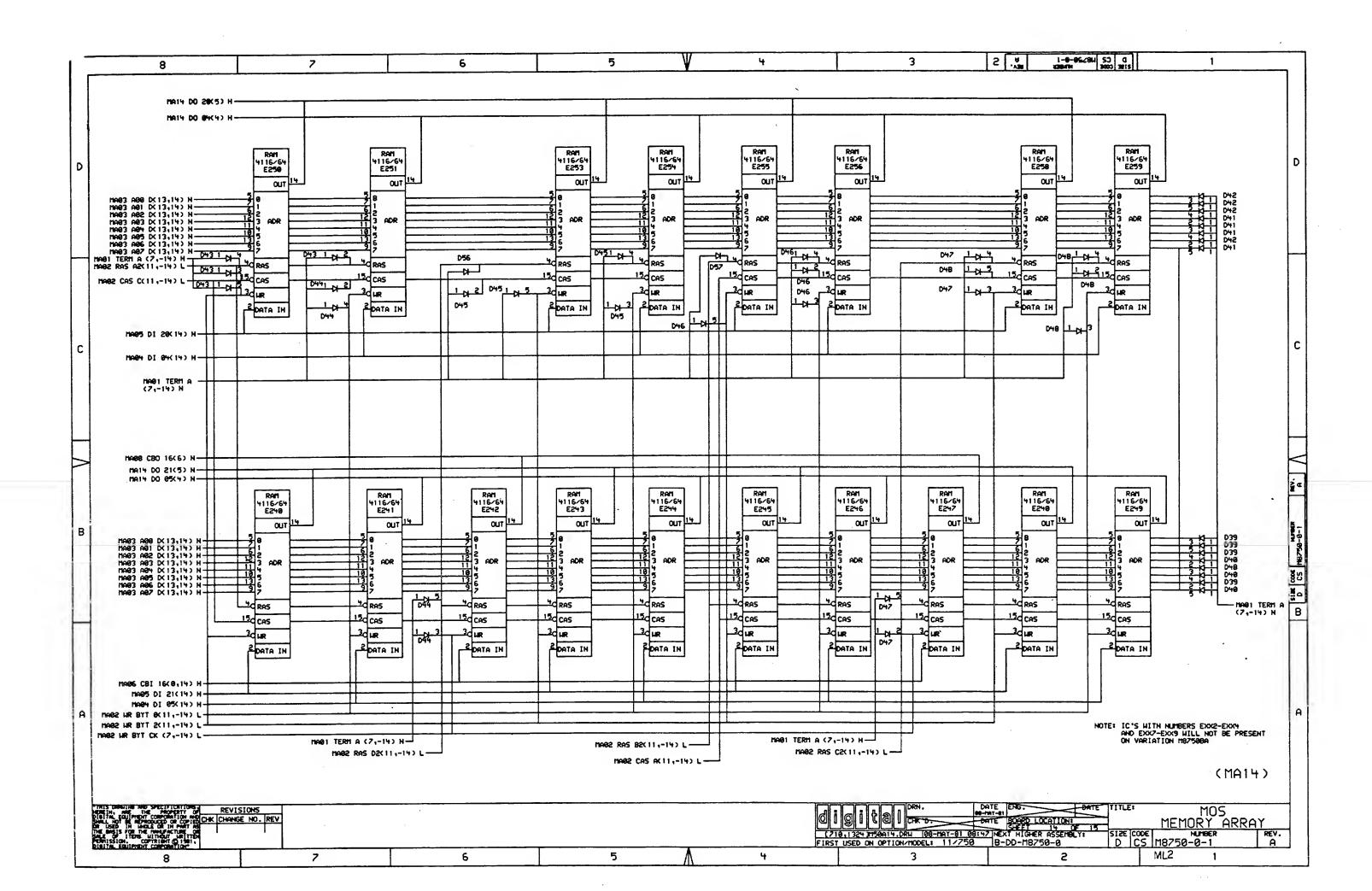


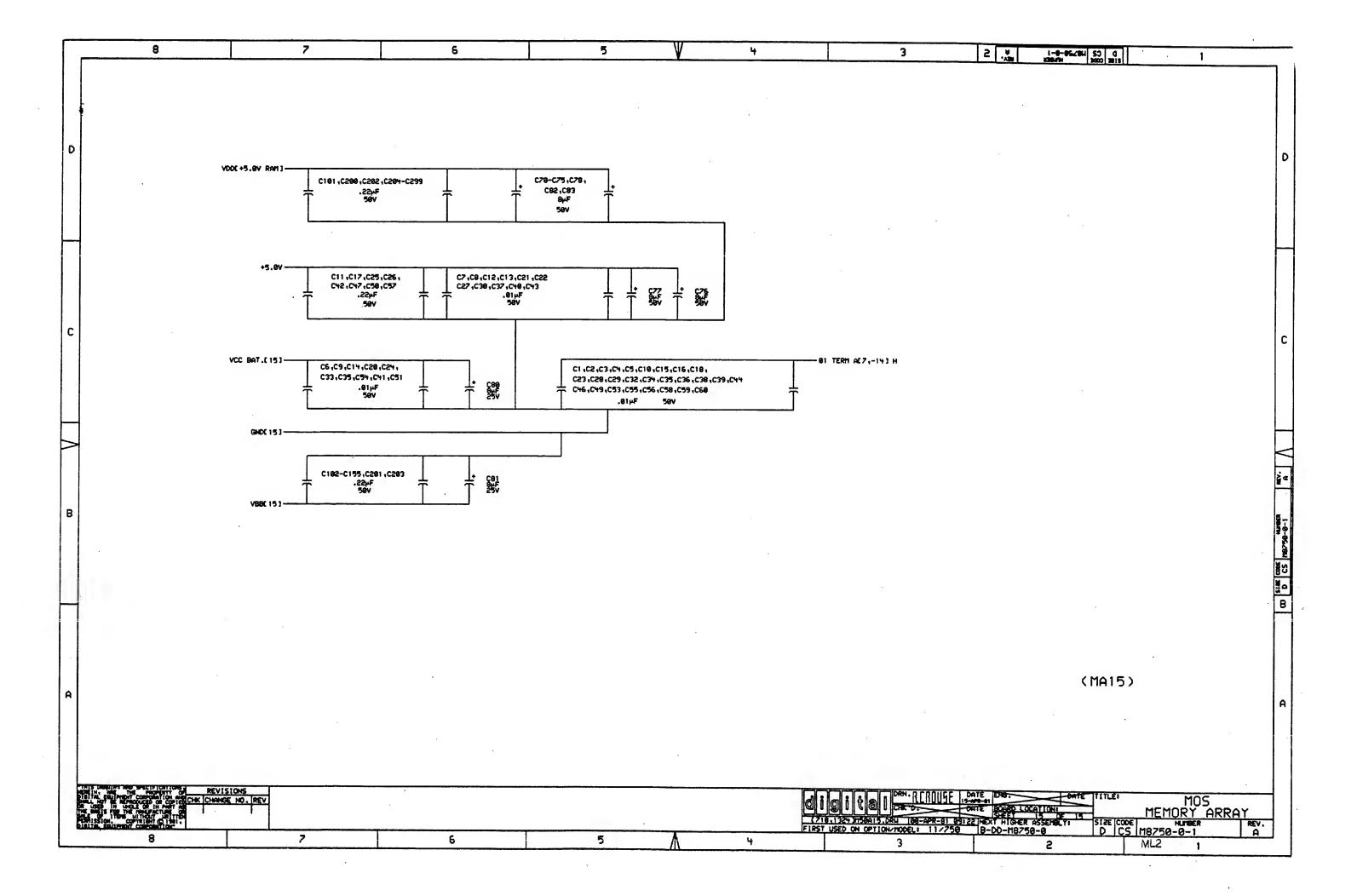












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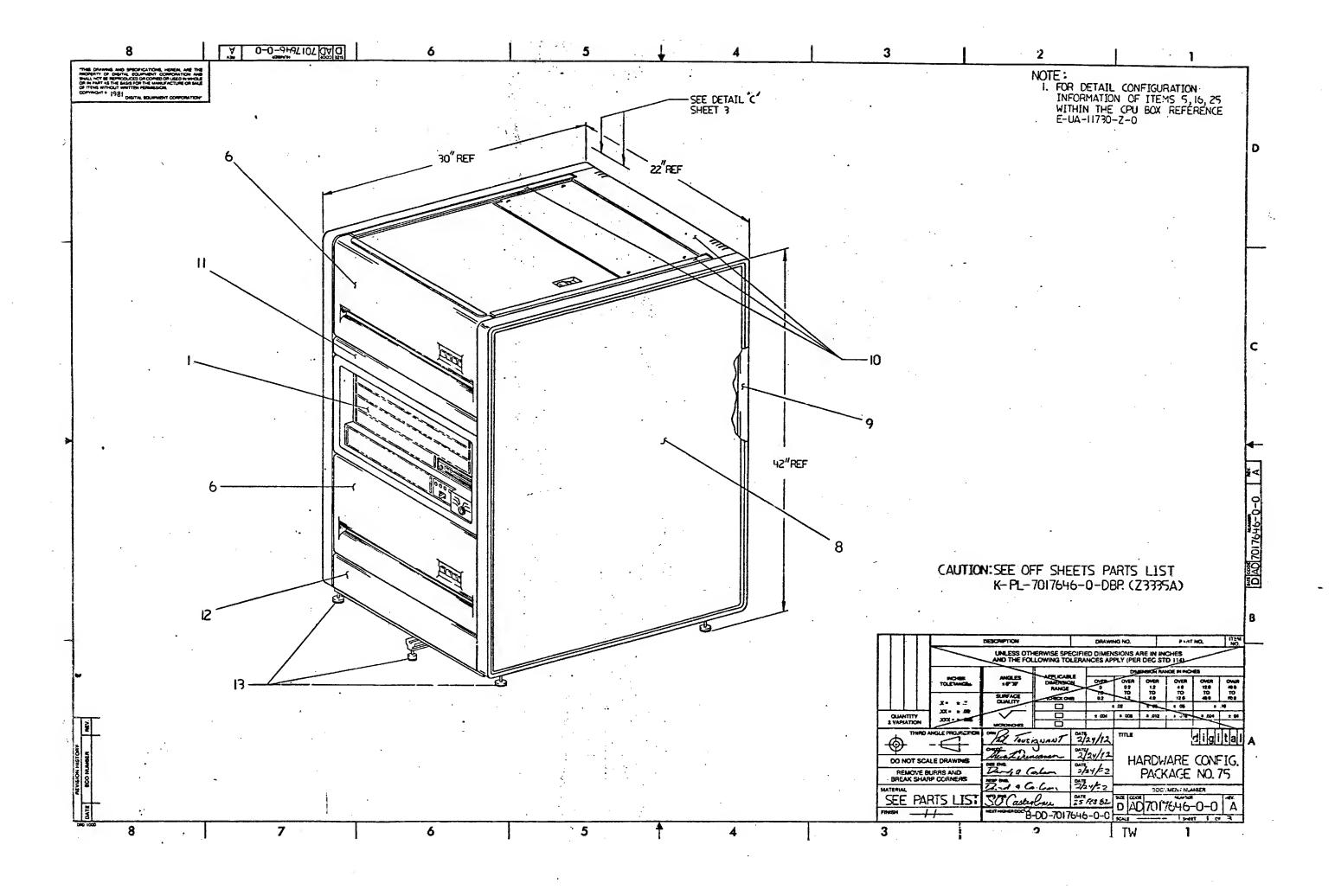
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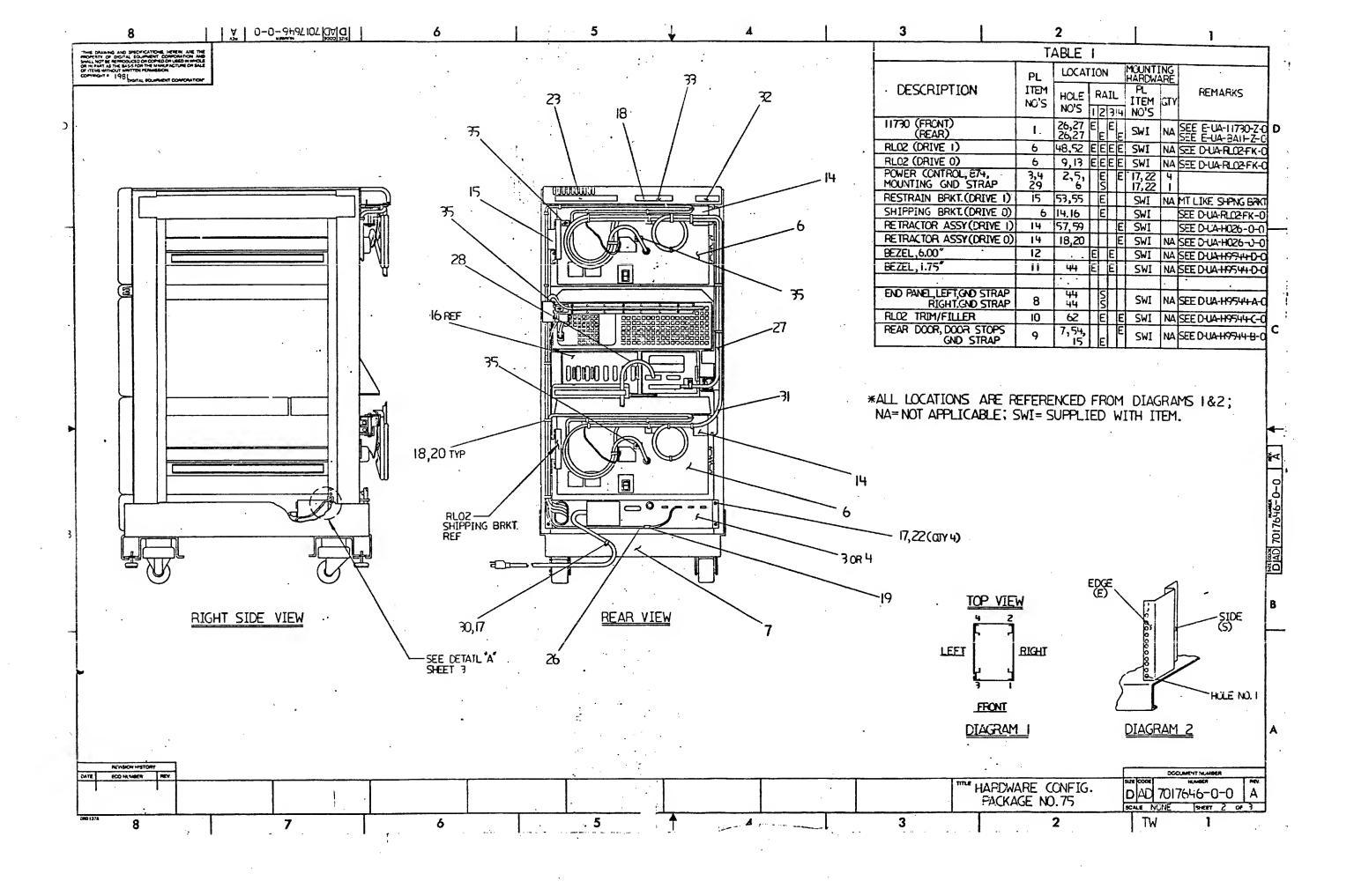
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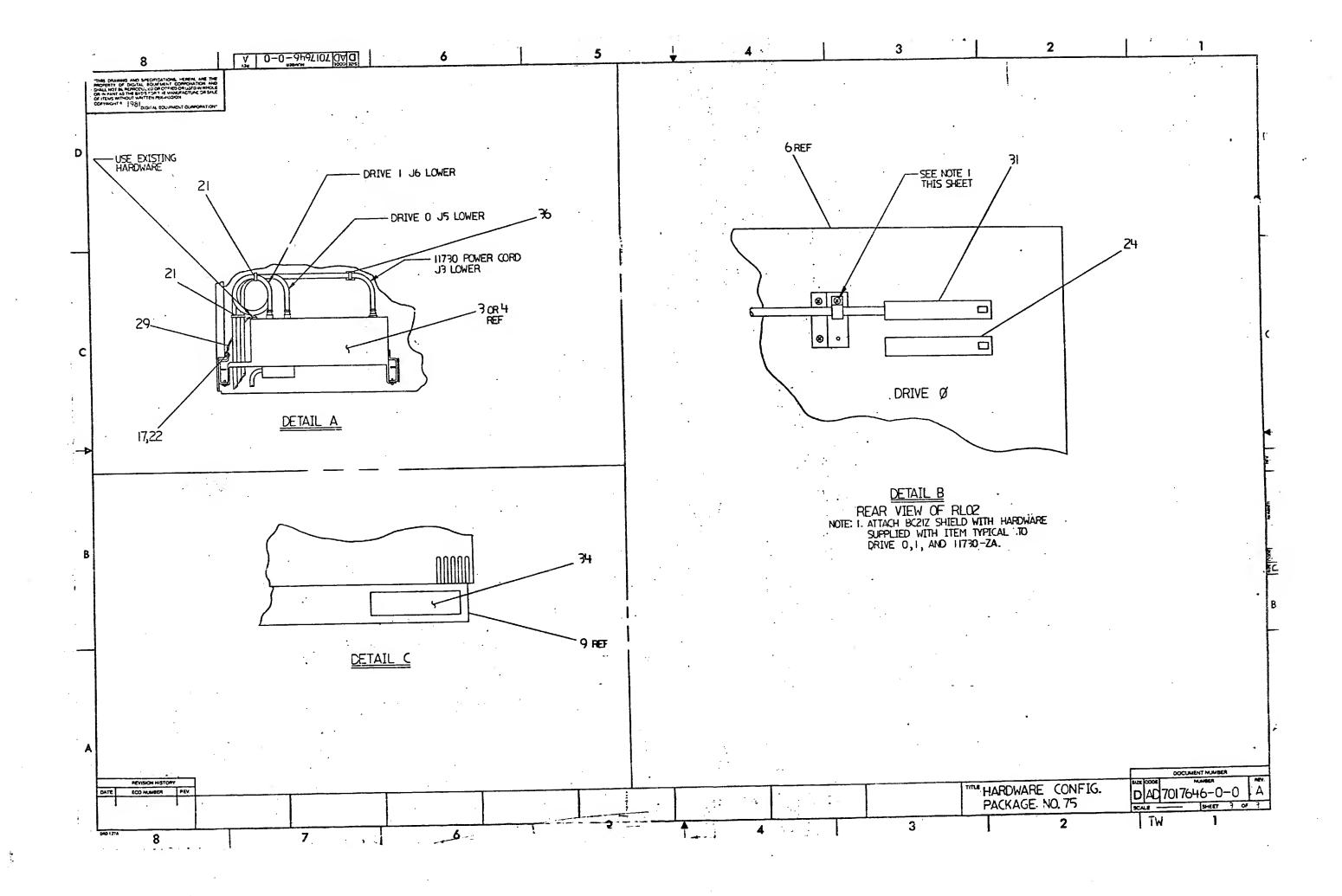
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	K-	PL-7017645-U-DBP	HARDWARE CONFIG. PKG. NO. 75 P/L	E/M	-			-	
,		PS-3700436-0-0	FKG CAB H9642/H9645/H9646		10	B-DD-H9544-D	H9544-D BEZEL ASSY	- <del>-</del> -	
•	— <del>с</del> -	-MD-7419856-0-0	BRKT. RLO1 SHIPPING BLACK	M	-			-	
	A-	PS-3618384-0-0	LABEL, CAUTION STABILIZER FOOT	М	11	B-DD-H9544-H	CABINET ACCESSORY KIT	E/M	
	A_	PS-1213756-0-0	GROUND STRAP	E/M				-	
	A-	PS-3617880-0-0	LABEL, FCC CLASS A PROCESSOR	М	12	B-DD-H026-0	RL RETRACTOR ASSY	- н	
	— A-	PS-3617674-0-0	LABEL, SERIAL & POWER W/UL & CSA	М				-	
	<del> </del>	-PS-3618058-0-0	LABEL, CAUTION STABILITY 11V23-WA	М	13	B-DD-DNF32-A	DHF32 OPTION	E/M	
	— A-	-PS-3618057-0-0	LABEL, CAUT. SERV. INTERLOCK 11V					-	
	-		•		14	D-IA-7012293-0-0	TERMINATOR ASSY	E/M	
	2 B-	-DD-11730-Z	11730-Z UNIT ASSY	E/M-		A-DC-7416678-0-0	TERMINATOR LOGO	E/M	
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	3 B-	-DD-874 <b>-</b> 0	874 POWER CONTROL	E/M	15	D-UA-BC06R-0-0	BCOGR I/O CABLE	E	
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	4 B-	-DD-M8388-0	IDC	E/H		A-PS-3616073-0-0	IDENTIFICATION LABEL	- M	
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	5 B-	-DD-RLO2-F	RLO2 DISK DRIVE	E/M	16	C-IA-7003288-0-0	CABLE ASSY	E	
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	6 B-	-DD-H9542-F	H9542-F 40 INCH FRAME ASSY	M	17	E-UA-BC21Z-0-0	I/O CABLE ASSY	E	
						K-PL-BC21Z-O-DBP	I/O CABLE ASSY PARTS LIST	E	
	7 B-	-DD-H9544-A	END. PANEL ASSY	M	-	A-PS-3616073-0-0	IDENTIFICATION LABEL	×	
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	8 B-	-DD-H9544-B	H9544-B REAR DOOR	М	18	B-DD-BC22D-0	CABLE, NULL NODEH	E	
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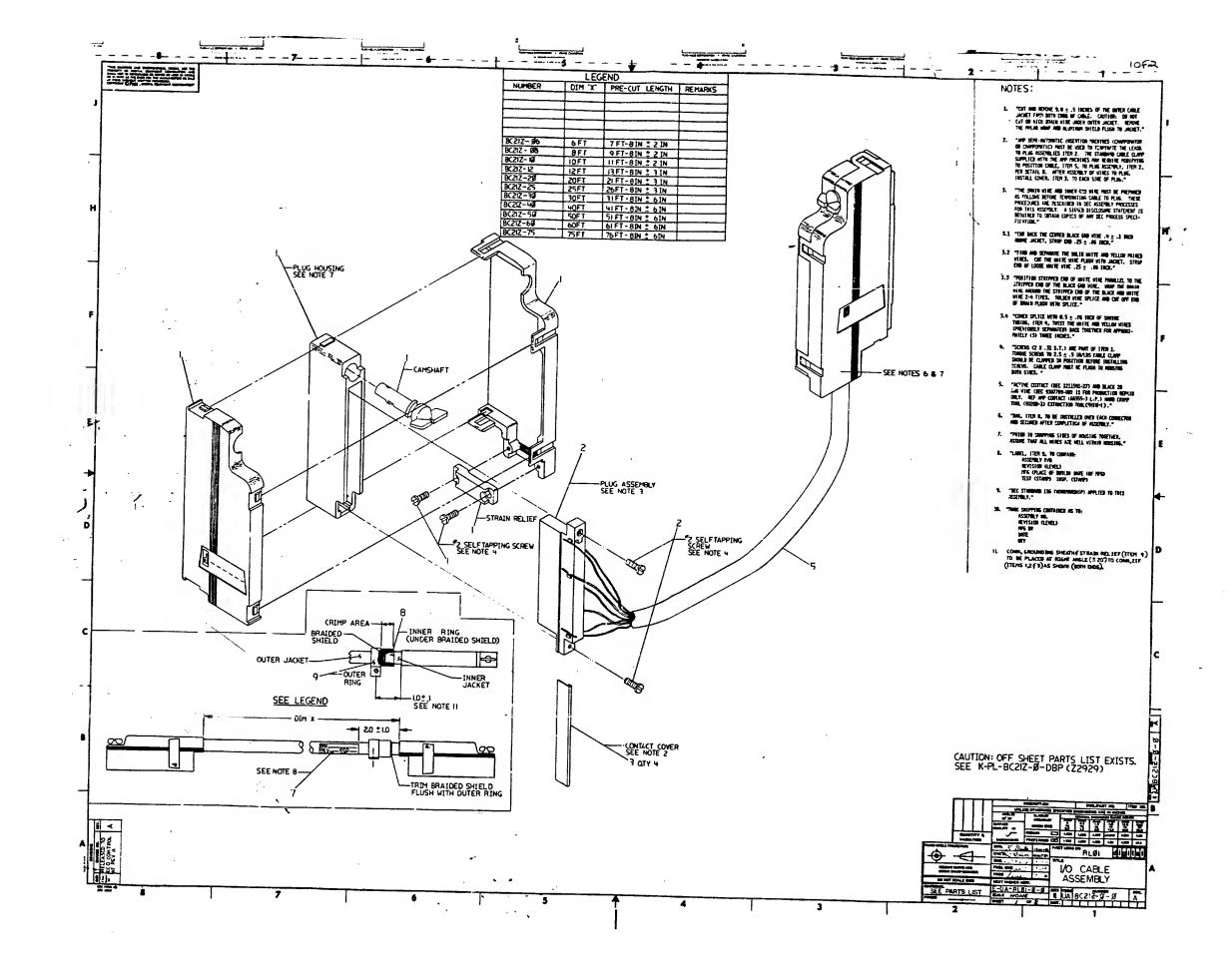
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1 1	E-UA-11730		11730-ZA	KA730-A, BA11			1 1		•			· .	
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8 8	D-UA-H9544		H9544-AA	40 END PANEL				2					
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0 10	D-UA-H9544		H9544-CA	RL01/RL02 TR			. 1 1	,					
1 11	D-UA-H9544	-D-0	H9544-DA	1.75" BEZEL			1 1						
12 12	D-UA-H9544	-D-0	H9544-DB	6"X19" FRONT						<u>-</u>	*		• • ••
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	C-MD-74198			BRKT,RL01 SH			- 4						
6 16	D-UA-DMF32	-A-0	DMF32-AA	8 EIA ASYNC SCREW,TRUS,F									
7 17			9009700-00 9007032-00	TIE, CABLE BU				, )					·
9 19			9009636-00	CLAMP, CABLE			1 1						
9 19			9007867-00	MOUNT, PUSH,			1						
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2 22	11 10 1110		9007783-00	RETAINER, U-			5 -5	5					
	A-PS-36183	84-0-0		LABEL, CAUTIO			1 1	Ĺ					
	D-IA-70122			TERMINATOR A	SSEMBLY		<del>1</del> -:	<del></del>				<del></del>	
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	B-UA-BC22I		BC22D-25	25FT CABLE,		MODEM,6 WI	1 1	1					
	A-PS-12137	54-0-0	1213756-12	GROUND STRAF	Coden XIII	··· ~7 /O · 8	1	L 					·
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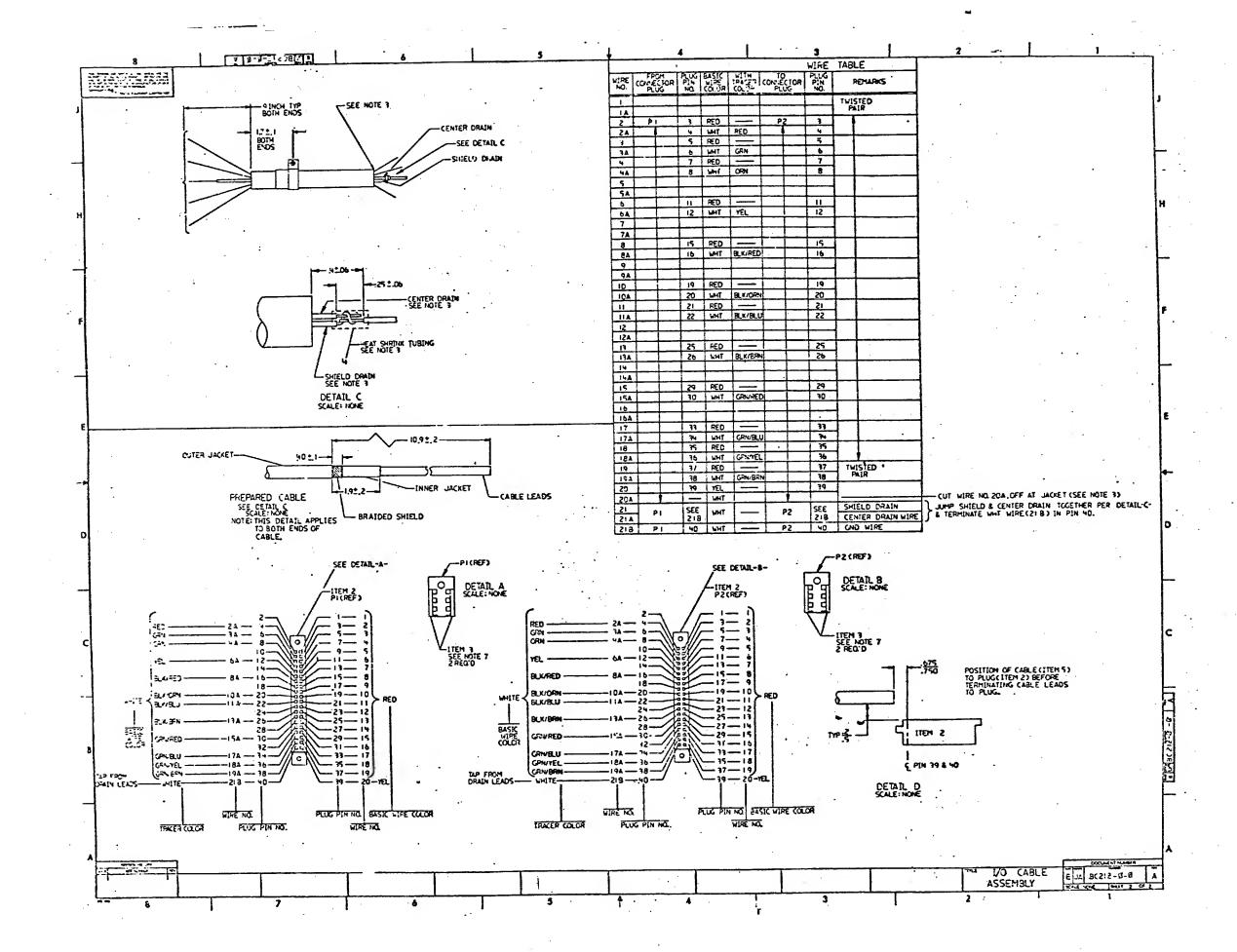
31 32 33 34 35 36	-31- 32 33 34 35 36	BY FRTLST.3F(44 DOCUMENT NUMBER E-UA-BC21Z-0-0 A-PS-3617880-0-( A-PS-3617674-0-( A-PS-3618058-0-( A-PS-3618057-0-( A-PS-1218912-0-(	PART NUMBE  BC21Z-08 0 3617880-02 0 3617674-01 0 3618058-01 0 3618057-01	SHIELDED I/O LABEL,FCC CL LABEL,SERIAL LABEL,CAUTIO LABEL,CAUTIO CLIP,CABLE 1	CABLE,RL01/RL02,P ASS A PROCESSOR & POWER W/UL & CS N STABILITY 11V23- N SERV.INTERLOCK 1	00 01 AS 1 1 1 1 A 1 1	PER VARIATIO	SHEE	T A2 OF A2
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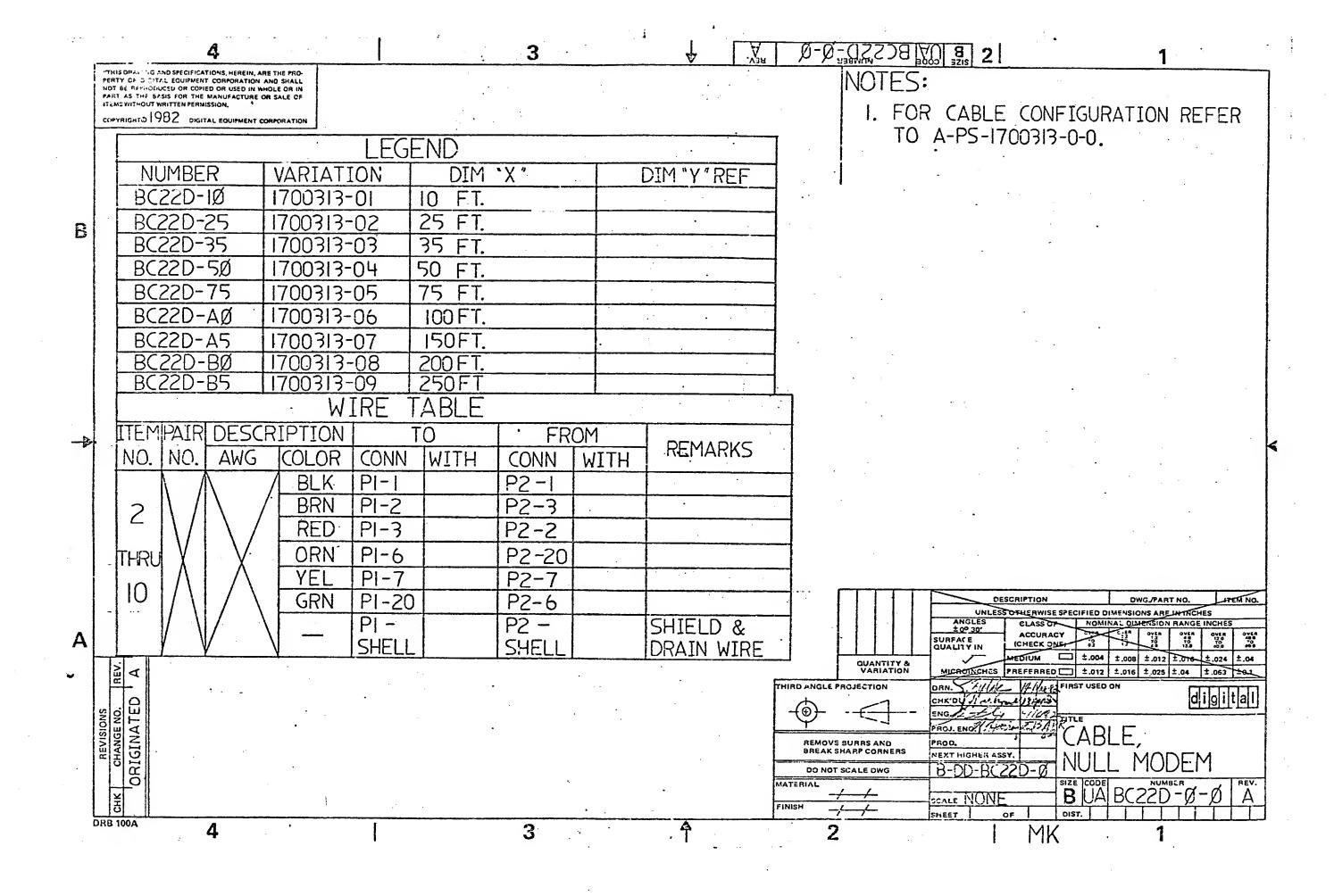




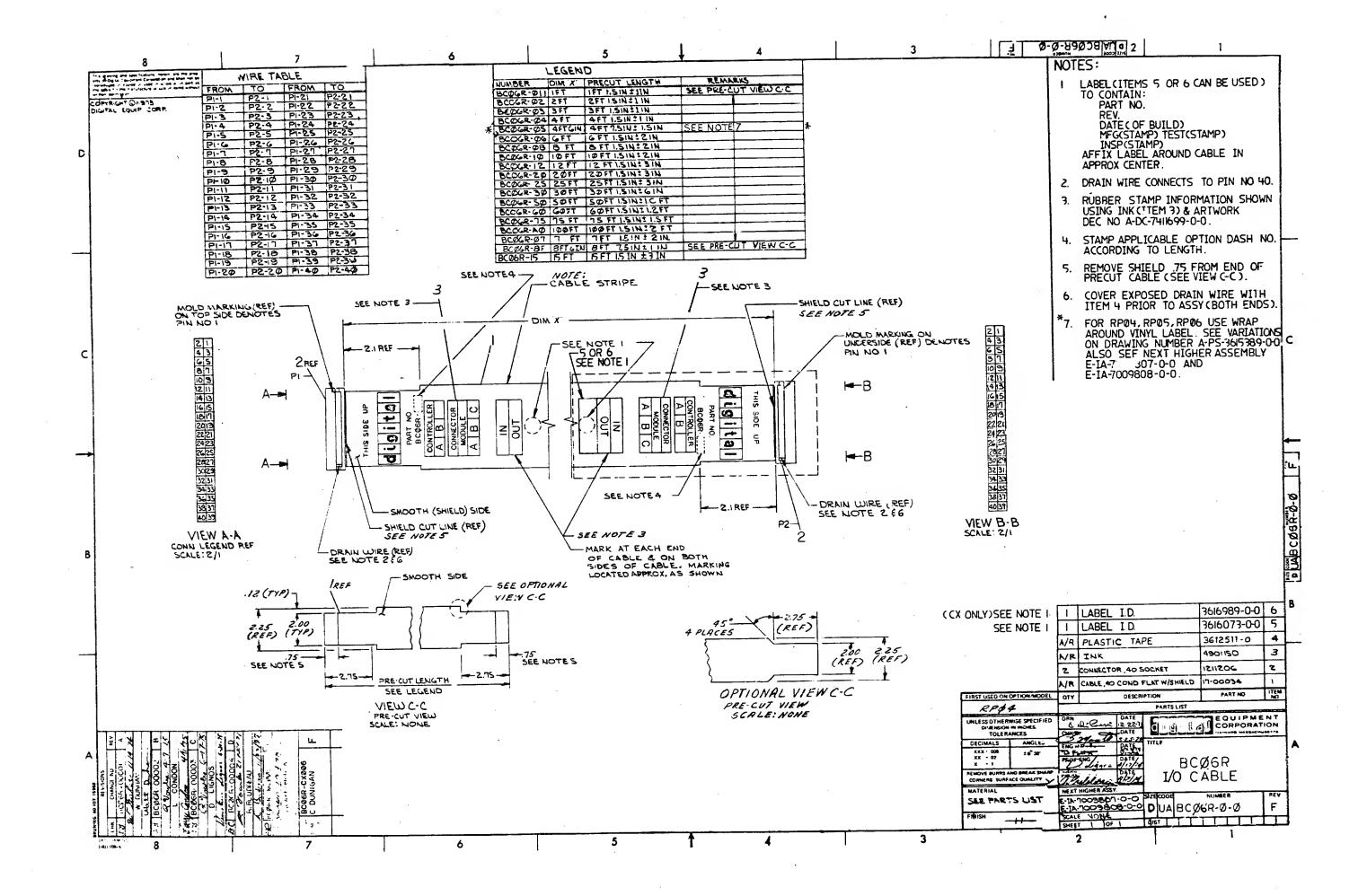


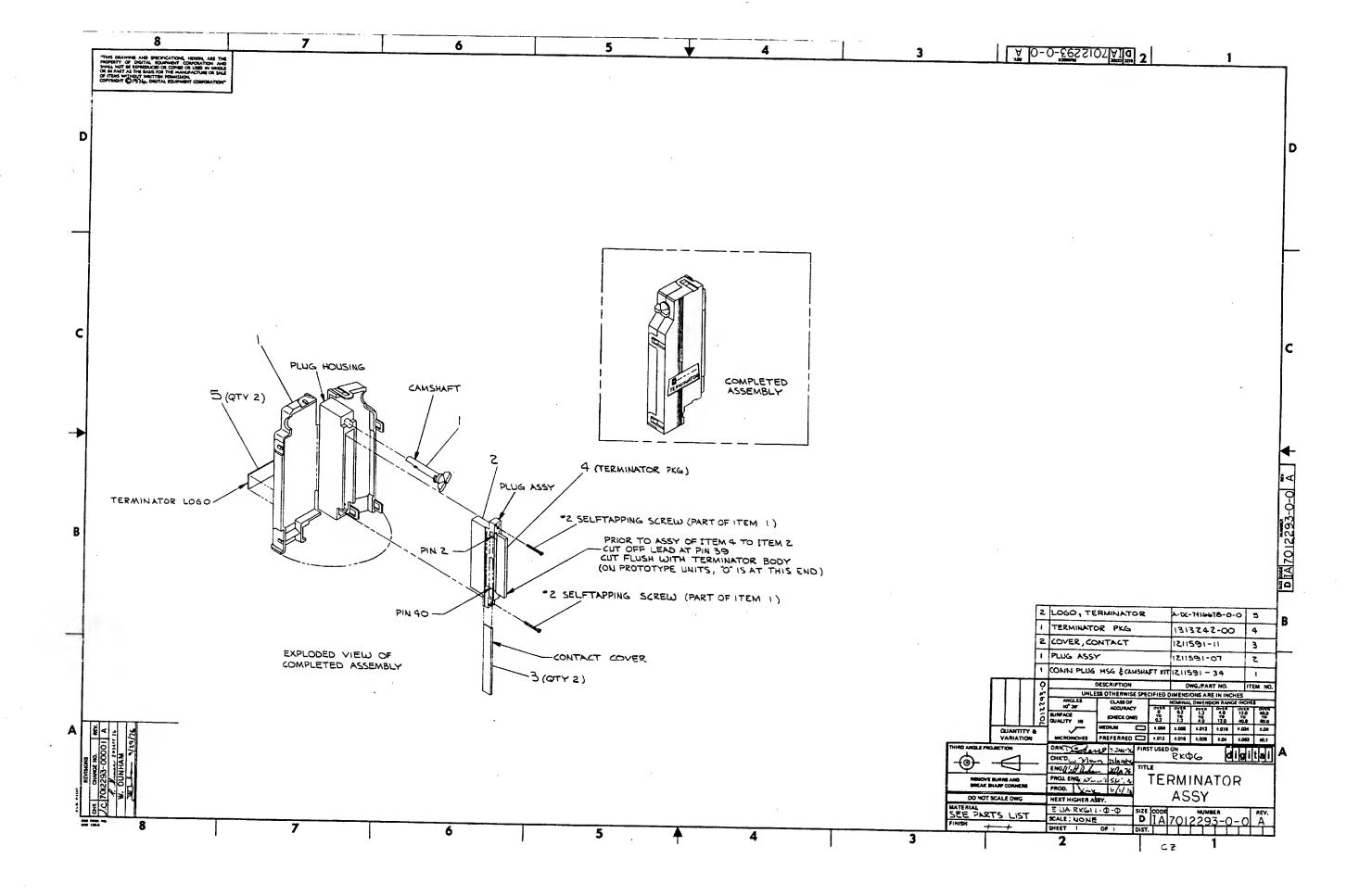
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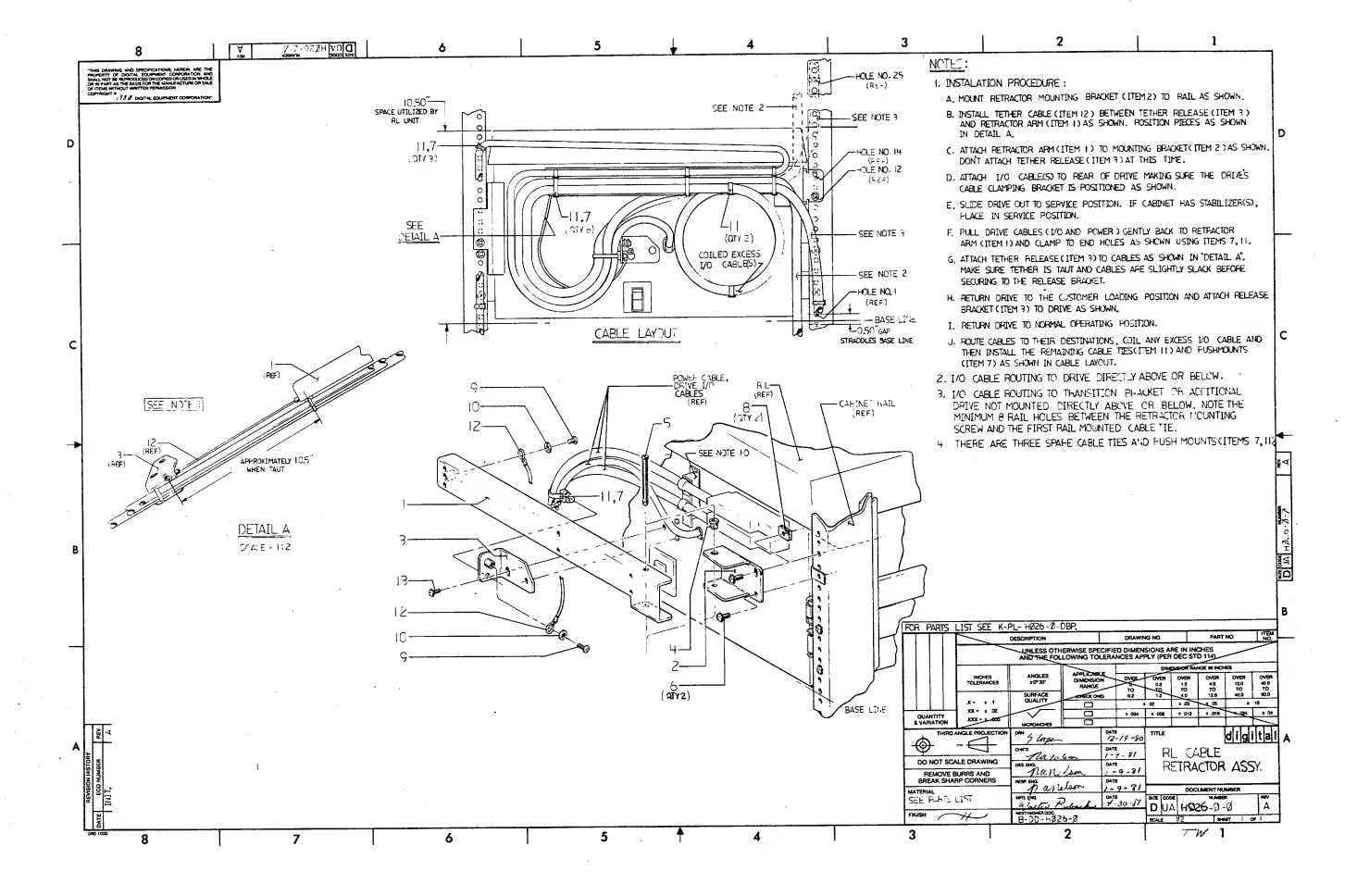
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• • • • • •	SECTION. VARIATION INDEX:CHK:D: B. HILLER DATE: 13-OCT-81  [A] 06.08-10.12.20.25.  30.40.50.60.75  [B] DES.ENG.: S. MANDECCIA DATE: 13-OCT-81  [C] RESP.ENG.: W. HARDER DATE: 13-OCT-81  [C] PARTS LIST  [A] CABLE ASSEMBLY  DOCUMENT NUMBER  [C] SIZE:CODE: NUMBER RE  [C] MFG.ENG.: R. PAYEITE DATE: 13-OCT-81 K   PL   BC21Z-0-DBP   A  [C] ASSEMBLY NUMBER: TOP ENGINEER NUMBER:	ED											



	DIGITAL		CORPORATION				.Q.I	JANT	ITY/	VAR	IATIO	N		NO	TES:				
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DATE ENG CATE	R. Marre-ofor	PROD DATE	ISSUED SECTION	BC22D-1(	-2	22D-3	BC22D-50	BC22D-75	BC22D-AØ	BC22D-A5	BC22D-BØ	BC22D-B5				. •			
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	BC	BC	OR .	BC	BC	BC	BC	ЭЕ	BC				RE	F DESIGNATION		
1	A-PS-1700313-Ø-Ø	1700313-00	CABLE, NULL MODEM	-	-	-	-	1	-	•	-	-					-		
2	A-PS-1700313-Ø-Ø	1700313-01	CABLE, NULL MODEM	1	-	-	-	-	-	-	'	-			- '				
3	A-PS-1700313-Ø-Ø	1700313-02	CABLE, NULL MODEM	-	1	-	-	-	-	-	-	-					•		
4	A-PS-1700313-Ø-Ø	1700313-03	CABLE, NULL MODEM	-	_	1	-	-	-	-	. –	-		-			•	•	
5	A-PS-1700313-Ø-Ø	1700313-04	CABLE, NULL MODEM	-	_	-	1	-	-	-	-	-				-	•		•
6	A-PS-1700313-Ø-Ø.	1700313-05	CABLE, NULL MODEM	-	-	-	-	1	-	-		-							
7	A-PS-1700313-Ø-Ø	1700313-06	CABLE, NULL MODEM	- 3.	_	-	-	-	1	-	-	-	*				•		
8	A-PS-1700313-Ø-Ø	1700313-07	CABLE, NULL MODEM	-	-	· <b>-</b> -	-	-	-	1	-	-					-		
9	A-PS-1700313-Ø-Ø	1700313-08	CABLE, NULL MODEM	-	-	-	-	-	-	-	1	-					•		•
10	A-PS-1700313-Ø-Ø	1700313-09	CABLE, NULL MODEM	-	-	-	-	-	-	-	• -	1							
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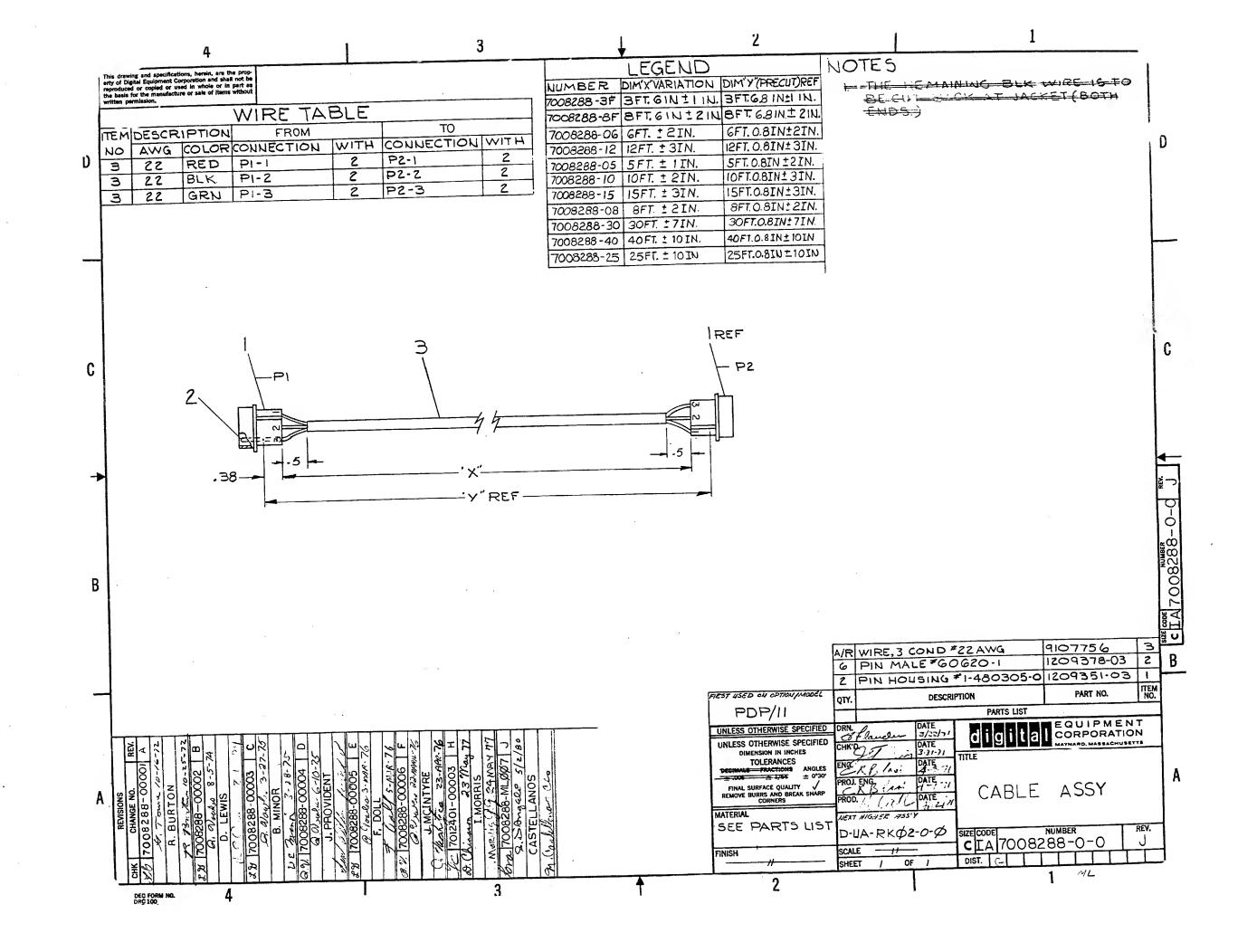




REVISION HISTOR	Y	!BASIC PART NO: 0H026	!	)	!			<u>-</u>				
ENG! . ECO NUMBER	!REV	SECTION A OF A	!DRN:	A.J.ROCHA	!DATE:	09-0CT-80	!	įı	į	I ! G	IIIT	AL
!INIT	!A	SECTION. VARIATION INDEX	! !CHK'D: !	R.A.NELSON	! !DATE:	01-JAN-81			:-	PARTS		-!!
!	!	! ! [B] !	! !DES.ENG.: !	R.A.NELSON	! !DATE:	01-JAN-81	!	KEIK	(AC)	FOR ASS	<b>Y</b>	
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!	! ! . !	! ! CEJ !	! !MFG.ENG.:	J.HESS	!	01-JAN-81	!!		1		)BP	! REV !
	!!!		ASSEMBLY NI D-UA-H026-	UMBER: 0-00-0	!	CUMENT NUMI	!! BER:		! ! F ! Z	ILE NAM	 1E <b>:</b> .S	!EDIT
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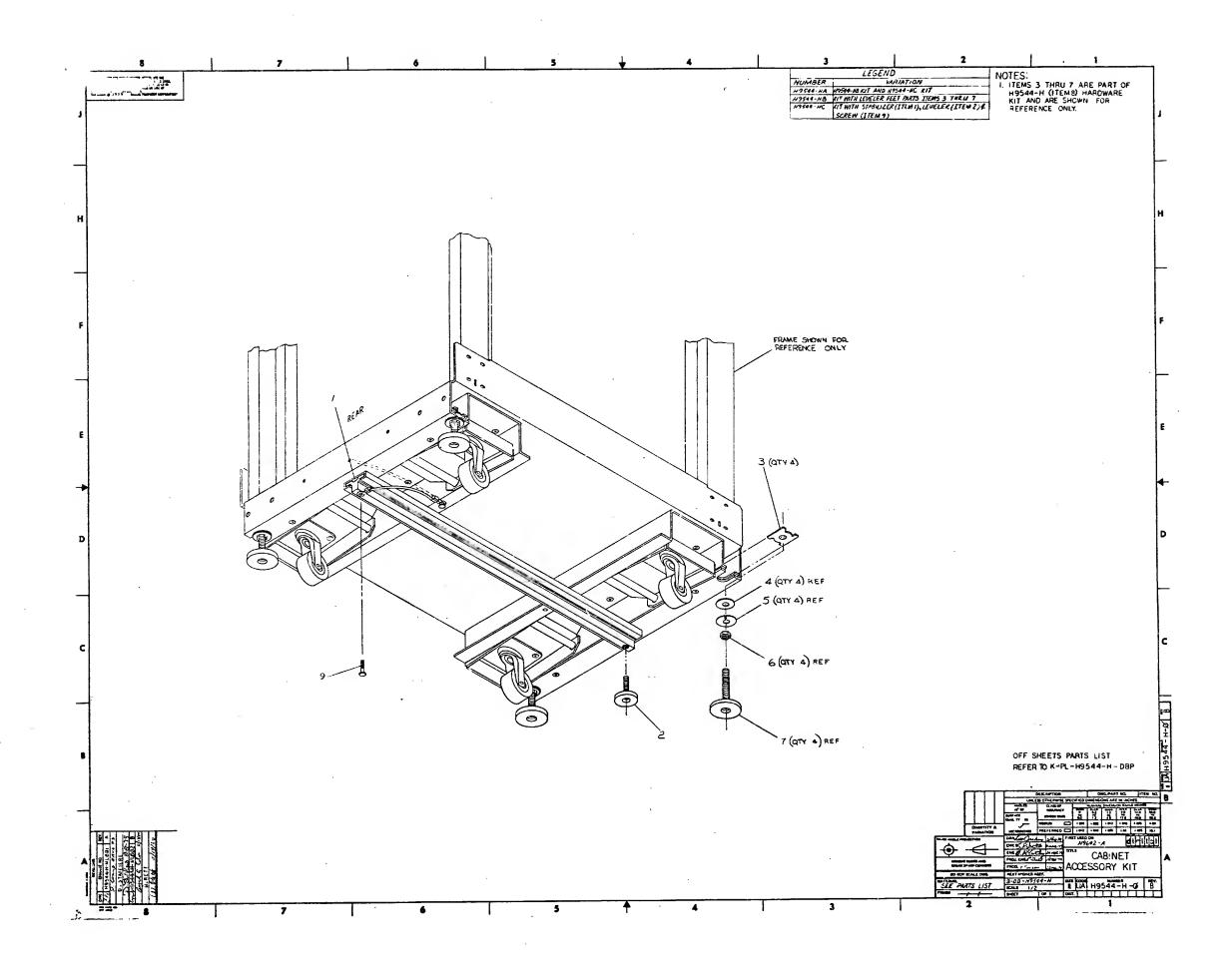
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SHEET A1 OF A1



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K	E-UA-H9544-H-Ø K-PL-H9544-H-DBP C-MD-7422204-0-0	CABINET ACCESSORY KIT CABINET ACCESSORY KIT FOOT, STABILIZER	M M M				
K	C-PL-H9544-H-DBP	CABINET ACCESSORY KIT	M				
	:-MD-7422204-0-0	FOOT, STABILIZER					
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N E			digital	TITLE		T SHEET 2 OF 2 B DD H9544-H	
78A	E ELECTRICAL M MECHANICAL M ELECTRO/MECHANICAL				CABINET ACCESSORY KI	T SHEET 2 OF 2 B DD H9544-H	



AUTOMATED BY FRTLST.3J(25)		PARTS	LIST	•	
LINE ITEM DOCUMENT NUMBER	FART NUMBER	DESCRIPTION	0		PER VARIATION HC
				•	
1 C-MD-7422204-0-0	7422204-00	EXT FOOT (METAL)			1
2 2	1216373-02	FOOT, LEVELER 1-3/8	BASE DIA 5/16		1
3 3	9008878-00	NUT, TEE, IRR, BASE		1 4	
4 4	9009026-00	WASHER, FLAT, .875		_ A	
5 5	9009895-00	WASHER, LOCK, SPLIT			
5 6	9006596-00	NUT, HEX , 1/2-1		_ 4	
7 7	9007601-01	FOOT, LEVELER, CUSH			
8 8	2200022-00	HARDWARE KIT FOR HS		Law law less	
9 9 B-MD-7424417-0-0	7424417-00	SCREW, HEX HEAD	/J44-n	- REF	, <del>"</del>
10 10	H9544-HB	KIT OF 4 LEVELERS			- <b>1</b>
11 11	H9544-HC	KIT OF 1 STABILIZES	ELEG.WITH LEU	1	

SHEET A1 OF A1

12 NOTE: ITEMS 3 THRU 7 ARE PART OF H9544-H HARDWARE KIT AND ARE 13 NOTE: LISTED FOR REFERENCE ONLY

!	REVISION HISTORY	!BASIC FART NO: H9544	I TIEN!	!	!!!	!!!!!!
!EN	S! ECO NUMBER !REV		DRN: LISE GRAHAM	!! !!	! D !!	! 1 ! G ! I ! T ! A ! L ! !
ins	! INITIAL   !* !H9544-H-ML001 !A	SECTION. VARIATION INDEX	ICHK'D: S. ROBERTS	! !DATE: 02-MAR-79 ! !	-	PARTS LIST ACCESSORY KIT
! WR ! *	!H9544-H-ML002 !B	! ! [8]	DES.ENG.: W.F. MC CARTHY	! !DATE: 02-MAR-79	l :	
		! [C] ! ! [D]	and the second s	! !DATE: 02-MAR-79		DOCUMENT NUMBER
1		1		!! ! !DATE: 02-MAR-79 !	* 1	= 1
*			!ASSEMBLY NUMBER: !E-UA-H9544-H-0	TOP DOCUMENT NUME	BER: !	FILE NAME: !EDIT # Z0241B.FLS ! 10
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